

STIC Database Tracking Number:

To: Examiner Danneman
Location: KNX 5D49
Art Unit: 3627
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Case Serial Number: 10/645181

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Search Notes

Dear Examiner Danneman :

Please find attached the results of your search for the above-referenced case. The search was conducted using the Business Methods Template Databases, EBSCHOhost and ProQuest.

I have listed *potential* references of interest in the first part of the search results. However, please be sure to scan through the entire report. There may be additional references that you might find useful.

If you have any questions about the search, or need a refocus, please do not hesitate to contact me.

Thank you for using the EIC, and we look forward to your next search!

Note: EIC-Searcher identified "potential references of interest" are selected based upon their apparent relevance to the terms/concepts provided in the examiner's search request.

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I. Potential References of Interest

A. Dialog

Your Applicant's published patent application

13/3,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01201298

Information providing system and method therefor
System und Verfahren zum Bereitstellen von Informationen
Systeme et procede pour fournir des informations
PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1045323 A2 001018 (Basic)
EP 1045323 A3 090506

APPLICATION (CC, No, Date): EP 2000303127 000413;

PRIORITY (CC, No, Date): JP 99106516 990414; JP 99106539 990414; JP
99361129 991220; JP 99360673 991220

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

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IPC + Level Value Position Status Version Action Source Office:

G06F-0017/60 A I F B 00000000 20000713 H EP

ABSTRACT WORD COUNT: 89

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200042	2196
SPEC A	(English)	200042	31654
Total word count - document A			33856
Total word count - document B			0
Total word count - documents A + B			33856

...SPECIFICATION unit 100 in a layout determining process;

Fig. 21 is a flow chart showing the control sequence of the CanDINet control unit 100 in an advertisement area determining process;

Fig. 22 is a flow chart showing the control sequence of the ... showing the content of the registered frame corresponding to the frame number;

Fig. 37 is a view showing a display image for selecting the frame sheet size or sheet direction;

Fig. 38 is a view showing a display image for entering telephone number;

Fig. 39 is a view showing a display image...

...amount, effective term and registration fee of deposited image data;

Fig. 45 is a view showing a display image indicating information necessary for determining the sheet size;

Fig. 46 is a view showing an example of IP information registration table;

Fig. 47 is a view showing an advertisement information table;

Fig. 48...

...for the advertisement provider to select a printing size of the advertisement data among the predetermined sizes and to select a condition for changing the advertisement size;

Fig. 69 is a view showing a registration display image for designating a full-page advertisement, a top-printed advertisement or a back-side advertisement...

...a view showing different kinds of layout;

Fig. 80 is a flow chart showing the control sequence of the CanDINet control unit 100 in an advertisement area securing process;

Figs. 81 and 82 are flow charts showing the control sequence of the CanDINet control unit 100 in displaying a registration frame image;

Fig. 83 is a flow chart showing the control sequence of the CanDINet control unit 100 in an advertisement area determining process on the front surface;

Fig. 84 is a flow chart showing the control sequence of the CanDINet control unit 100 in an advertisement area determining process on the back surface; and

Fig. 85 is a flow chart showing the control sequence of the CanDINet control unit 100 in an advertisement area determining process on a separate sheet.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

(First embodiment)

Fig. 1 is a view showing an embodiment of the information...

...be outputted (printed).

In this process, an advertisement is printed in a space area or on the back surface of the sheet, together with the output information, whereby the print fee to be charged to the user can be alleviated.

An information medium 121 such as internet, a newspaper or a magazine also provides the P...

...from the terminal 120 or another information medium 121 and entering such P-code into the kiosk terminal 110 as explained in the foregoing. The fee for information output is variable according to various conditions such as presence/absence of advertisement, back-side printing, color/monochromatic printing etc.;

2) Mail print service: In case...

...this service allows the user to print the content (mail information) of the electronic mail by entering the P-code. Also in this service, the fee for information output is variable according to various conditions such as presence/absence of advertisement, back-side printing, color/monochromatic printing etc.;

3) Personal information service: This service...

...P-code). In entering such personal P-code, it is necessary to enter a password or the like into the personal verification device 115. The fee for information output is variable according to various conditions such as presence/absence of advertisement, back-side printing, color/monochromatic printing etc.; and

4) Data delivery service: This...

...P-code is issued, and the information can be outputted at any desired location by entering such P-code in the kiosk terminal 110. The fee for information output is variable according to various conditions such as presence/absence of advertisement, back-side printing, color/monochromatic printing etc.

Fig. 2 is a block diagram...information price column of the IP information registration table shown in Fig. 46. In this operation, the print charge is calculated in consideration of the fee for monochromatic or color printing and the fee for the print sheet, according to the print setting shown in Fig. 29.

In case the advertisement is inserted, the CanDINet control unit 100, after the above-mentioned...such schematic preview data. Also in this step, there may be displayed an image as shown in Fig. 37, for enabling the selection of the sheet size or the sheet direction. When the "OK" button is depressed on the preview image, the sequence returns to the step S1205.

Finally, when the "print...

...by cash deposit in a coinreceiver provided in the kiosk terminal 110.

In cash of cash payment at the store counter, namely in case a bar code is to be printed on the sheet (step S1001 - Y), bar code print data are generated according to the print charge, in preparation for attaching to the print data received from the CanDINet control unit 100.

In...

...of the CanDINet control unit 100 in generating the print data, based on the P-code transmitted from the kiosk terminal 110 and the output format of the advertisement. When the print data are requested from the kiosk terminal 110, the CanDINet control unit 100 starts generation of the print data. Fig. 53 is a basic flow chart...

...the P-code acquired in the step S1701, are acquired from the database (step S1703). Also there is discriminated whether or not to generate the print data with advertisement, based on the output format of the advertisement acquired in the step S1702 (step S1704).

In case of generating the print data with advertisement (step S1704 - Yes), there are executed in succession a sheet size determination process (step S1705), a layout determination process (step S1706), an advertisement size determination process (step S1707), and an advertisement search process (step S1708). In case of generating the print data without advertisement (step S1704 - No), there are executed in succession a sheet size determination process (step S1709) and a layout determination process (step S1710).

These processes will be explained in the following.

(Sheet size determination process)

Fig. 18 is a flow chart showing the function of the CanDINet control unit 100 in the sheet size determination process. At first the service type is confirmed, and there is discriminated whether the service type is the mail print service (step S1801). If...

...print service (step S1801 - N), the process is started according to the flow chart shown in Fig. 19.

At first, a step S1802 sets the sheet size at a basic sheet size. The basic sheet size is the sheet size designated in the registration image shown in Fig. 63 in case the user applies for the registration to the CanDINet control unit 100, or the sheet size designated on a display image as shown in Fig. 37 in case the user can designate the sheet size on such display image on the kiosk terminal. If the user does not execute designation in either case, the basic sheet size is set as A4 size. The information necessary for determining the sheet size is memorized in a table format 4502 in Fig. 45 according to the designation by the user, in case the user applies for the registration...

...priority is given to the visibility or page number in the print data generation (step S1804). If the priority is given to visibility, a temporary sheet size is calculated by information size X reduction limit value (step S1805). If the priority is given to page number, a temporary sheet size is selected equal to the information size (step S1809).

Then there is discriminated whether the temporary sheet size determined in the step S1805 or S1809 is larger than the sheet size (step S1806). If the temporary sheet size is larger than the sheet size (step S1806 - Yes), there is selected the minimum sheet size satisfying the condition that sheet size = temporary sheet size (step S1810). If the temporary sheet size is not larger than the sheet size, or if the temporary sheet size is same as the sheet size, the temporary sheet size

is selected as the sheet size (step S1807).

Once the sheet size is determined, there is discriminated whether next information data are present (step S1808). If present (step S1808 - Yes), there is acquired the information size of such information data (step S1811) and the sequence returns to the step S1804. If the next information data are absent (step S1808 - No), the final sheet size is determined from the current sheet size and the standard advertisement ratio, and the present process is terminated.

On the other hand, if the service type is the mail print service, a process is executed according to the flow chart shown in Fig. 19. At first, a step S1901 sets the sheet size at a basic sheet size. The basic sheet size is the sheet size designated in the registration image shown in Fig. 63 in case the user applies for the registration to the CanDINet control unit 100, or the sheet size designated on a display image as shown in Fig. 37 in case the user can designate the sheet size on such display image on the kiosk terminal. If the user does not execute designation in either case, the basic sheet size is set as A4 size. The information necessary for determining the sheet size is memorized in a table format 4502 in Fig. 45 according to the designation by the user, in case the user applies for the registration...

...is present.

Then there is discriminated whether an image file is attached to the mail (step S1903). If not attached (step S1903 - No), a temporary sheet size is selected as 0 X 0 (step S1907). If the image file is attached (step S1903 - Yes), the sequence proceeds to a step S1904.

Then...

...priority is given to the visibility or page number in the print data generation (step S1904). If the priority is given to visibility, a temporary sheet size is calculated by image file size X reduction limit value (step S1905). If the priority is given to page number, a temporary sheet size is selected equal to the image file size (step S1906).

Then there is discriminated whether the temporary sheet size determined in the step S1905, S1906 or S1907 is larger than the sheet size (step S1908). If the temporary sheet size is larger than the sheet size (step S1908 - Yes), there is selected the minimum sheet size satisfying the condition that sheet size = temporary sheet size (step S1910). If the temporary sheet size is not larger than the sheet size, or if the temporary sheet size is same as the sheet size, the temporary sheet size is selected as the sheet size (step S1909).

Once the sheet size is determined, there is discriminated whether a next mail is present (step S1911). If present (step S1911 - Yes), there is acquired the information on such mail (step S1912) and the sequence returns to the step S1903. If the next mail is absent (step S1911 - No), the final sheet size is determined from the current sheet size and the advertisement ratio, and the present process is terminated. In the present embodiment, the advertisement ratio is selected same as the standard ratio of...

...flow chart showing the function of the CanDINet control unit 100 in the layout determination process. At first the CanDINet control unit 100 executes an advertisement area securing process for securing an advertisement area (step S2001).

Fig. 80 is a flow chart showing the function of the CanDINet control unit 100 in the advertisement area securing process. At first there is determined the ratio of the amount of advertisement (step S8001). In the present embodiment, the advertisement ratio is selected...

...2) printing the advertisement on the separate sheet, the advertisement ratio in this stage is selected as 0. It is however memorized to form an advertisement area on the back side in case of selection (1), and to form an advertisement area on another sheet in case of selection (2).

Then there is discriminated whether a predetermined layout is to be used for all the services, or...

...mode of the CanDINet control unit 100 for providing the advertisement service.

If the predetermined layout is to be used for all the services, the advertisement area is secured with such predetermined layout. In this case, the size of the advertisement area follows the ratio of amount of the advertisement. In the present embodiment, the predetermined layout is given by 7902 in Fig. 79.

If the layout is to be changed according to the service type, the advertisement area is secured with a layout corresponding to each service type. Also in this case, the size of the advertisement area follows the ratio of amount of the advertisement. In the present embodiment, the layout for the mail print service is given by 7901 or 7902...

...places the information data and tries to secure the area of the information size for placing such information data but such area overflows from the sheet size or invades the advertisement area, the layout is made on the next page.

If the priority is given to the page number in generating the print data (step S2002 - No...

...next information data are no longer present (step S2010 - No), the area containing the information data is enlarged within an extent not overflowing from the sheet size and not invading the advertisement area (step S2012), thereby expanding the information data as far as possible.

If the step S2009 places the information data and tries to secure the area of the information size for placing such information data but such area overflows from the sheet size or invades the advertisement area, the layout is made on the next page.

(Advertisement area determination process)

In the following there will be explained a process for determining the advertisement area. Fig. 21 is a flow chart showing the function of the CanDINet control unit 100 in determining the advertisement area.

At first, the advertisement area is selected as the print area by the printing unit of the kiosk terminal minus the information data area (step S2101).

Then there is prepared a variable "advertisement size",

which is initially selected as the largest advertisement size (step S8302). In the present embodiment, the advertisement size is limited to predetermined plural sizes. The advertisement provider is to select one of such predetermined sizes at the registration of the advertisement.

Then there is discriminated whether the advertisement size can be accommodated in the advertisement area (step S2103). If accommodatable (step S2103 - Yes), there is secured an advertisement area of such advertisement size (step S2104), and the advertisement area is defined as the remaining advertisement area after such securing (step S2105).

If the advertisement size cannot be accommodated in the advertisement area (step S2103 - No), there is discriminated whether the advertisement size is the smallest advertisement size (step S2106). If there is a smaller advertisement size (step S2106 - No), the next largest advertisement size is selected as the advertisement size (step S2107) and the sequence returns to the step S2103. If there is no smaller advertisement size (step S2106 - Yes), the present process is terminated. In the step S2104, there are memorized the secured advertisement size and the secured location.

In the following there will be explained the process of determining the advertisement area in case the advertisement is to be printed on the back side or on another sheet. Figs. 83 to 85 are flow charts showing the function of the CanDINet control unit 100 in determining the advertisement area.

At first, the advertisement area is selected as the print area by the printing unit of the kiosk terminal minus the information data area (step S8301).

Then there is prepared a variable "advertisement size", which is initially selected as the largest advertisement size (step S8302). In the present embodiment, the advertisement size is limited to predetermined plural sizes. The advertisement provider is to select one of such predetermined sizes at the registration of the advertisement.

Then there is discriminated whether the advertisement size can be accommodated in the advertisement area (step S8303). If accommodatable (step S8303 - Yes), there is secured an advertisement area of such advertisement size (step S8304), and the advertisement area is defined as the remaining advertisement area after such securing (step S8305).

If the advertisement size cannot be accommodated in the advertisement area (step S8303 - No), there is discriminated whether the advertisement size is the smallest advertisement size (step S8306). If there is a smaller advertisement size (step S8306 - No), the next largest advertisement size is selected as the advertisement size (step S8307) and the sequence returns to the step S8303. If there is no smaller advertisement size (step S8306 - Yes), the sequence proceeds to a step S84 in Fig. 84.

A flow chart shown in Fig. 84 determines the advertisement area in case the advertisement area is secured on the back side. For this purpose, there is at first discriminated whether an advertisement area is secured on the back side (step S8401).

The discrimination is made by checking whether the step S8001 in Fig. 80 has memorized securing the advertisement area on the back side.

If the advertisement area is secured on the back side, the advertisement area is selected as the print area by the printing unit of the kiosk terminal minus the information data area (step S8402). Steps S8403 to 8408...

...be explained as they are similar to the step S8303 to S8308 in Fig. 83. In case the step S8407 identifies the absence of smaller advertisement size, the sequence proceeds to a step S8501 in Fig. 85.

When an advertisement area is secured in another sheet, the flow chart in Fig. 85 executes a process for determining the advertisement area. For this purpose, there is at first discriminated whether an advertisement area is secured on another sheet (step S8501). The discrimination is made by checking whether the step S8001 in Fig. 80 has memorized securing the advertisement area on another sheet.

If the advertisement area is secured on another sheet, the advertisement area is selected as the print area by the printing unit of the kiosk terminal (step S8502). Steps S8503 to 8508 will not be explained as they are similar to the step S8303 to S8308 in Fig. 83. In case the step S8507 identifies the absence of smaller advertisement size, the advertisement area determining process is terminated. The steps S8304, S8404 and S8504 memorize the secured advertisement size and the secured location.

In an example shown in Fig. 54, the advertisement areas are secured in succession for the advertisements 1, 2, 3 and...geographical area in which the advertisement data are printed.

On the registration display image shown in Fig. 68, the advertisement provider can select the printed advertisement size among the predetermined sizes, and whether the advertisement size can be changed or not.

Also on the registration display image shown in Fig. 69, there can be designated a full-page advertisement, a top...

...step S1711 in Fig. 17. In this step, the print data are generated by selecting to the advertisement data to be inserted, from the secured advertisement size and the secured location stored in the advertisement size determination process of the step S1707 and from the search result list prepared in the advertisement search process in the step S1708.

The CanDINet control...

...data to be inserted, by discriminating, in the descending order of matching level of the advertisement P-code in the search result list, whether the advertisement size memorized in the advertisement information table corresponding to such P-code matches the advertisement size determined in the advertisement size determination process. In this operation, consideration is made not only on the advertisement size but also on whether the size is adjustable.

Also if the selected advertisement data include an advertisement designated for page-top insertion, the layout is...

...advertisement 3 in Fig. 54, the layout is changed as shown in Fig. 55.

Fig. 56 shows an example of the printout of thus generated print data.

In case the output format of the advertisement determined in the step S1702 in Fig. 17 designates the advertisement printing on the back side or advertisement printing also on the back side, there are at first generated the print data for outputting the information data with the layout determined in the layout determination process (step S1706 in Fig. 17) and then generated are the print data for printing the selected advertisement data on...

...format of the advertisement determined in the step S1702 in Fig. 17 designates the advertisement printing on another sheet, there are at first generated the print data for outputting the information data with the layout determined in the layout determination process (step S1706 in Fig. 17) and, after a page change, there are generated the print data for printing the...

...an upper or lower limit. Such limit avoids unlimited payment of the advertisement charge.

Also the variable print charge can be indicated by printing a bar code together with the printing of the information and can be promptly settled, without error, by reading such bar code.

Also the printing of the advertisement on the back side allows effective utilization of the sheet area even with a simple layout rule, and the advertisement can be inserted without influencing the layout of the information. Also the value of the advertisement...

...free of charge by including advertisement) prints, the user is allowed to acquire simplified information from the mobile terminal and detailed information by print on paper. Such configuration drastically improves the convenience of access to information, and stimulates the sales activity in the convenience store as such location attracts more people.

Also the...selection means is cash payment.

259. An information processing apparatus according to clause 258, wherein said symbol indicating the amount of said charge is a bar code.

260. An information processing apparatus according to clause 258, wherein the amount of said charge is variable according to additional information attached to said information...

...selection step is cash payment.

315. An information processing method according to clause 314, wherein said symbol indicating the amount of said charge is a bar code.

316. An information processing method according to clause 314, wherein the amount of said charge is variable according to additional information attached to said information...

...said selection step is cash payment.

371. A memory medium according to clause 370, wherein said symbol indicating the amount of said charge is a bar code.

372. A memory medium according to clause 370, wherein the amount of said charge is variable according to additional information attached to

said information.
373...

B. Additional Resources Searched

ProQuest and EBSCOHost were searched, but no references of interest were found.

II. Inventor Search Results from Dialog

? show files;ds

File 350:Derwent WPIX 1963-2009/UD=200958
(c) 2009 Thomson Reuters

File 344:Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office

File 347:JAPIO Dec 1976-2009/May(Updated 090903)
(c) 2009 JPO & JAPIO

File 371:French Patents 1961-2002/BOPI 200209
(c) 2002 INPI. All rts. reserv.

File 348:EUROPEAN PATENTS 1978-200937
(c) 2009 European Patent Office

File 349:PCT FULLTEXT 1979-2009/UB=20090910|UT=20090903
(c) 2009 WIPO/Thomson

File 2:INSPEC 1898-2009/Sep W1
(c) 2009 The IET

File 35:Disertation Abs Online 1861-2009/Aug
(c) 2009 ProQuest Info&Learning

File 65:Inside Conferences 1993-2009/Sep 15
(c) 2009 BLDSC all rts. reserv.

File 99:Wilson Appl. Sci & Tech Abs 1983-2009/Aug
(c) 2009 The HW Wilson Co.

File 256:TecTrends 1982-2009/Sep W2
(c) 2009 Info.Sources Inc. All rights res.

File 474:New York Times Abs 1969-2009/Sep 15
(c) 2009 The New York Times

File 475:Wall Street Journal Abs 1973-2009/Sep 15
(c) 2009 The New York Times

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 Gale/Cengage

File 23:CSA Technology Research Database 1963-2009/Aug
(c) 2009 CSA.

File 56:Computer and Information Systems Abstracts 1966-2009/Aug
(c) 2009 CSA.

File 15:ABI/Inform(R) 1971-2009/Sep 14
(c) 2009 ProQuest Info&Learning

File 16:Gale Group PROMT(R) 1990-2009/Aug 20
(c) 2009 Gale/Cengage

File 148:Gale Group Trade & Industry DB 1976-2009/Aug 27
(c) 2009 Gale/Cengage

File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group

File 275:Gale Group Computer DB(TM) 1983-2009/Aug 14
(c) 2009 Gale/Cengage

File 621:Gale Group New Prod.Annou.(R) 1985-2009/Aug 06
(c) 2009 Gale/Cengage

File 9:Business & Industry(R) Jul/1994-2009/Sep 14
(c) 2009 Gale/Cengage

File 20:Dialog Global Reporter 1997-2009/Sep 15
(c) 2009 Dialog

File 610:Business Wire 1999-2009/Sep 15
(c) 2009 Business Wire.

File 613:PR Newswire 1999-2009/Sep 15
(c) 2009 PR Newswire Association Inc

File 24:CSA Life Sciences Abstracts 1966-2009/Sep
(c) 2009 CSA.
File 634:San Jose Mercury Jun 1985-2009/Sep 12
(c) 2009 San Jose Mercury News
File 636:Gale Group Newsletter DB(TM) 1987-2009/Aug 20
(c) 2009 Gale/Cengage
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
File 13:BAMP 2009/Sep 14
(c) 2009 Gale/Cengage
File 75:TGG Management Contents(R) 86-2009/Aug W3
(c) 2009 Gale/Cengage
File 95:TEME-Technology & Management 1989-2009/Aug W4
(c) 2009 FIZ TECHNIK

Set	Items	Description
S1	96459	AU=(SATOMI, H? OR SATOMI H? OR KASAI, K? OR KASAI K? OR IT- O, K? OR ITO K? OR TAMARI, M? OR TAMARI M? OR FUKUNAGA, S? OR FUNKUNAGA S? OR HIGUMA Y? OR HIGUMA, Y? OR MASUKASA, A? OR MA- SUKAWA A? OR INOUE, A? OR INOUE A? OR IZUMI, J? OR IZUMI J?)
S2	3	S1 AND ADVERTISEMENT()AREA
S3	103	S1 AND ADVERTISEMENT? ?
S4	13	S3 AND (LAYOUT OR LAYOUTS OR TEMPLATE OR TEMPLATES)
S5	10	S4 NOT S2
? t5/3,k/all		

5/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2009 Thomson Reuters. All rts. reserv.

0010580727 - Drawing available
WPI ACC NO: 2001-185577/200119
XRPX Acc No: N2001-132592
Information processor for informational service, has determining unit which
determines output layout of addition information, based on type of
output service identified by recognition unit
Patent Assignee: CANON KK (CANO)
Inventor: FUKUNAGA S; HIKUMA Y; INOUE A; ITO K; IZUMI J;
KASAI K; MASUKAWA A; SATOMI H; TAMATOSHI M

Patent Family (2 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
JP 2000357069	A	20001226	JP 1999360675	A	19991220	200119 B
JP 3167125	B2	20010521	JP 1999360675	A	19991220	200130 E

Priority Applications (no., kind, date): JP 1999106537 A 19990414

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 2000357069	A	JA	56	85	
JP 3167125	B2	JA	56		Previously issued patent JP 2000357069

Information processor for informational service, has determining unit which

determines output layout of addition information, based on type of
output service identified by recognition unit
...Inventor: INOUE A...

...ITO K...

...IZUMI J...

...KASAI K...

...MASUKAWA A...

...SATOMI H

Alerting Abstract ...NOVELTY - A determination unit determines the output
layout of addition information based on the type of output service
identified by recognition unit....USE - For informational service e.g.
internet web, electronic mail, facsimile advertisement, free-dial
inquiry, data claim postcard sending.

...

...ADVANTAGE - As the sponsor advertisement is optimally added, the
cost of user's information acquisition is reduced

Title Terms.../Index Terms/Additional Words: LAYOUT;

Original Publication Data by Authority

Argentina

Assignee name & address:

Inventor name & address:

SATOMI HIROSHI...

...MASUKAWA AKIHIRO...

...INOUE ATSUSHI...

...KASAI KENJI...

...ITO KIMIHIRO...

...IZUMI JIRO

Examiner:

5/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0010550269 - Drawing available
WPI ACC NO: 2001-153764/200116
XRPX Acc No: N2001-113336
Information processor for facsimile information extraction service,
determines layout of output information and additional information
based on acquired attribute information
Patent Assignee: CANON KK (CANO)

Inventor: FUKUNAGA S; HIKUMA Y; INOUE A; ITO K; IZUMI J;
KASAI K; MASUKAWA A; SATOMI H; TAMATOSHI M

Patent Family (2 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
JP 2000357070	A	20001226	JP 1999361128	A	19991220	200116 B
JP 3176361	B2	20010618	JP 1999361128	A	19991220	200136 E

Priority Applications (no., kind, date): JP 1999106517 A 19990414

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 2000357070	A	JA	59	85	
JP 3176361	B2	JA	62		Previously issued patent JP 2000357070

Information processor for facsimile information extraction service,
determines layout of output information and additional information
based on acquired attribute information
...Inventor: INOUE A...

...ITO K...

...IZUMI J...

...KASAI K...

...MASUKAWA A...

...SATOMI H

Alerting Abstract ...to be output corresponding to the code information,
attribute information is acquired. The attribute information also acquired
based on additional information relevant to output information.
Layout of output information and the additional information is
determined based on the acquired attribute information....USE - For
processing information for providing services such as internet web,
internet push type news delivery service, facsimile information extraction
service, sponsor advertisement, free dial inquiry, postcard sending,
electronic mail information.

...

...ADVANTAGE - Reduces user's information acquisition cost, enables
obtaining desired information in a suitable layout.

Title Terms.../Index Terms/Additional Words: LAYOUT;

Original Publication Data by Authority

Argentina

Assignee name & address:

Inventor name & address:

SATOMI HIROSHI...

...MASUKAWA AKIHIRO...
...INOUE ATSUSHI...

...KASAI KENJI...

...ITO KIMIHIRO...

...IZUMI JIRO

Examiner:

5/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2009 Thomson Reuters. All rts. reserv.

0010550268 - Drawing available
WPI ACC NO: 2001-153763/200116
XRPX Acc No: N2001-113335
Information processor for printing advertisement in store, has
forwarding unit to forward generated output information to an output
control unit

Patent Assignee: CANON KK (CANO)
Inventor: FUKUNAGA S; HIKUMA Y; INOUE A; ITO K; IZUMI J;
KASAI K; MASUKAWA A; SATOMI H; TAMATOSHI M

Patent Family (2 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
JP 2000357068	A	20001226	JP 1999360674	A	19991220	200116 B
JP 3262552	B2	20020304	JP 1999360674	A	19991220	200219 E

Priority Applications (no., kind, date): JP 1999106538 A 19990414

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 2000357068	A	JA	59	85	
JP 3262552	B2	JA	58		Previously issued patent JP 2000357068

Information processor for printing advertisement in store, has
forwarding unit to forward generated output information to an output
control unit

...Inventor: INOUE A...

...ITO K...

...IZUMI J...

...KASAI K...

...MASUKAWA A...

...SATOMI H

Alerting Abstract ...acquires output information based on the code
information which is recognized by recognition unit. Generation unit
generates output based on acquired information in the designated

layout. Forwarding unit forwards the generated output information to an output control unit....USE - For printing advertisements in store, providing services such as internet based news delivery service, facsimile information extraction service, newspaper and magazine delivery service, free dial inquiry, etc...

...ADVANTAGE - As the sponsor advertisement is optimally added, the cost of user's information acquisition is reduced. The output of detailed information is provided based on requirement of user...

Original Publication Data by Authority

Argentina

Assignee name & address:

Inventor name & address:

SATOMI HIROSHI...

...MASUKAWA AKIHIRO...

...INOUE ATSUSHI...

...KASAI KENJI...

...ITO KIMIHIRO...

...IZUMI JIRO

Examiner:

5/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2009 Thomson Reuters. All rts. reserv.

0010523580 - Drawing available

WPI ACC NO: 2001-125371/200114

XPX Acc No: N2001-092354

Information processing apparatus for use in e.g. convenience or retail store for obtaining information from mobile terminal and detailed information by print on paper

Patent Assignee: CANON KK (CANO)

Inventor: FUKUNAGA S; HIGUMA Y; HIKUMA Y; INOUE A; ITO K;

IZUMI J; KASAI K; MASUKAWA A; SATOMI H; TAMARI

M; TAMATOSHI M

Patent Family (7 patents, 27 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1045323	A2	20001018	EP 2000303127	A	20000413	200114 B
JP 2000357067	A	20001226	JP 1999360673	A	19991220	200116 E
JP 2000357071	A	20001226	JP 1999361129	A	19991220	200116 E
JP 3167124	B2	20010521	JP 1999360673	A	19991220	200130 E
JP 3167126	B2	20010521	JP 1999361129	A	19991220	200130 E
US 20040039641	A1	20040226	US 2000548973	A	20000413	200416 E
			US 2003645181	A	20030821	
EP 1045323	A3	20090506	EP 2000303127	A	20000413	200931 E

Priority Applications (no., kind, date): JP 1999106516 A 19990414; JP 1999106539 A 19990414; JP 1999360673 A 19991220; JP 1999361129 A 19991220

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1045323	A2	EN	127	85	
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 2000357067	A	JA	60		
JP 2000357071	A	JA	64		
JP 3167124	B2	JA	60		Previously issued patent JP 2000357067
JP 3167126	B2	JA	62		Previously issued patent JP 2000357071
US 20040039641 2000548973	A1	EN			Continuation of application US
EP 1045323	A3	EN			
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE AL LT LV MK RO SI					
...Inventor: HIGUMA Y...					
...INOUE A...					
...ITO K...					
...IZUMI J...					
...KASAI K...					
...MASUKAWA A...					
...SATOMI H...					
...TAMARI M					

Alerting Abstract ...NOVELTY - A terminal adds advertising data to information supplied from information providers, and calculates the advertisement fee by counting the number of users printing the advertisement. The terminal charges the user, up to the maximum limit desired, for the information obtained according to the print amount....USE - Providing and acquiring information with a level of information that is appropriate to the information receiving side and with appropriate layout.

Original Publication Data by Authority

Argentina

Assignee name & address:

Inventor name & address:

Satomi, Hiroshi, c/o Canon Kabushiki Kaisha...

...Kasai, Kenji, c/o Canon Kabushiki Kaisha...

...Ito, Kosuke, c/o Canon Kabushiki Kaisha...
 ...Tamari, Makoto, c/o Canon Kabushiki Kaisha...
 ...Fukunaga, Shinji, c/o Canon Kabushiki Kaisha...
 ...Higuma, Yasushi, c/o Canon Kabushiki Kaisha...
 ...Masukawa, Akihiro, c/o Canon Kabushiki Kaisha...
 ...Inoue, Atsushi, c/o Canon Kabushiki Kaisha...
 ...Izumi, Jiro, c/o Canon Kabushiki Kaisha...
 ...HIGUMA Y, JP...
 ...INOUE A, JP...
 ...ITO K, JP...
 ...IZUMI J, JP...
 ...KASAI K, JP...
 ...MASUKAWA A, JP...
 ...SATOMI H, JP...
 ...TAMARI M, JP...
 ...SATOMI HIROSHI...
 ...MASUKAWA AKIHIRO...
 ...INOUE ATSUSHI...
 ...KASAI KENJI...
 ...ITO KIMIHIRO...
 ...IZUMI JIRO...
 ...SATOMI HIROSHI...
 ...MASUKAWA AKIHIRO...
 ...INOUE ATSUSHI...
 ...KASAI KENJI...
 ...ITO KIMIHIRO...
 ...IZUMI JIRO...
 ...SATOMI H...
 ...KASAI K...
 ...ITO K...

...TAMARI M...

...HIGUMA Y...

...MASUKAWA A...

...INOUE A...

...IZUMI J...

...SATOMI H...

...KASAI K...

...ITO K...

...TAMARI M...

...HIGUMA Y...

...MASUKAWA A...

...INOUE A...

...IZUMI J...

...Satomi, Hiroshi...

...Tamari, Makoto...

...Masukawa, Akihiro...

...Kasai, Kenji...

...Fukunaga, Shinji...

...Inoue, Atsushi...

...Ito, Kosuke...

...Higuma, Yasushi...

...Izumi, Jiro

Examiner:

Original Abstracts:

A terminal apparatus obtains desired information from information providers and prints the information in high quality as needed. The terminal adds advertisement information to the desired information, which reduces the cost for obtaining and printing the desired information. The terminal calculates the advertisement fee by counting the number of printing of the advertisement. The terminal charges the user, up to the maximum limit desired, for the information obtained and printed according to the print amount. The terminal allows the information providers to avoid paying the advertisement fee unlimitedly...

...A terminal apparatus obtains desired information from information providers and prints the information in high quality as needed. The

terminal adds advertisement information to the desired information, which reduces the cost for obtaining and printing the desired information. The terminal calculates the advertisement fee by counting the number of printing of the advertisement. The terminal charges the user, up to the maximum limit desired, for the information obtained and printed according to the print amount. The terminal allows the information providers to avoid paying the advertisement fee unlimitedly...

...A terminal apparatus obtains desired information from information providers and prints the information in high quality as needed. The terminal adds advertisement information to the desired information, which reduces the cost for obtaining and printing the desired information. The terminal calculates the advertisement fee by counting the number of printing of the advertisement. The terminal charges the user, up to the maximum limit desired, for the information obtained and printed according to the print amount. The terminal allows the information providers to avoid paying the advertisement fee unlimitedly.

Claims:

5/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0009972040 - Drawing available
WPI ACC NO: 2000-274644/200024
XRPX Acc No: N2000-206041
Sales information processing system for e.g. supermarket, discount shop
Patent Assignee: DAINIPPON PRINTING CO LTD (NIPQ)
Inventor: HAYASHI M; ITO K
Patent Family (2 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
JP 2000057209	A	20000225	JP 1998226713	A	19980811	200024 B
JP 4205214	B2	20090107	JP 1998226713	A	19980811	200905 E

Priority Applications (no., kind, date): JP 1998226713 A 19980811

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 2000057209	A	JA	8	5	
JP 4205214	B2	JA	10		Previously issued patent JP 2000057209

...Inventor: ITO K

Alerting Abstract ...matter displaying goods. A sales data acquisition unit obtains sales data of goods produced by a POS system (2). A production unit outputs sales information layout data distributing sales data of each good on corresponding display position in edit data, based on assigned identification code to good. An output unit outputs the layout data
...

...ADVANTAGE - Analysis data for visual determination of sale of each good can be obtained quickly. Sales information layout data can be referred similar to distributed advertisement. DESCRIPTION OF

DRAWING(S) - The figure is the block diagram of the sales information processing system. (2) Point of sale system.

Original Publication Data by Authority

Argentina

Assignee name & address:

Inventor name & address:

...ITO KEISUKE

Examiner:

Original Abstracts:

...invention relates to the automatic processing system of the sales information using POS information. According to invention of Claim 1 and 5, the sales information layout data as which the sales data of each goods were displayed on the advertisement printed matter in which each goods were displayed are output, Therefore The analysis data which can grasp|ascertain the sales for every goods easily visually can...

Claims:

It is arranged by the predetermined position of advertisement printed matter, Goods box data to which it set so that the image data of the goods of one might be arranged in it, and the goods identification code of goods in question was allocated, An edit data-acquisition means to acquire the edit data of the advertisement printed matter of the form holding the image data of each goods matched with each goods box by the said goods identification code, A sales...

...acquire the sales data regarding each goods produced by the point of sales system, The edit data and the said sales data of the said advertisement printed matter are matched by the said goods identification code, A preparation means to produce the sales information layout data which have arrange|positioned the sales data of each said goods on the display position of each goods in the said edit data, An output means to output the said sales information layout data, The memory|storage means which are a temporary storage area|region of the edit data of the advertisement printed matter which the said edit data-acquisition means acquired, and the sales data which the said sales data-acquisition means acquired, and the workspace of a preparation means to produce the said sales information layout data, These are provided, The sales information processing system characterized by the above-mentioned.

5/3,K/6 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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06712843 **Image available**
INFORMATION RETRIEVAL METHOD, INFORMATION RETRIEVAL DEVICE AND STORAGE MEDIUM

PUB. NO.: 2000-298677 [JP 2000298677 A]
PUBLISHED: October 24, 2000 (20001024)
INVENTOR(s): SATOMI HIROSHI
FUKUNAGA SHINJI
INOUE ATSUSHI

MASUKAWA AKIHIRO
KASAI KENJI
ITO KIMIHIRO
IZUMI JIRO

APPLICANT(s): CANON INC
APPL. NO.: 11-107255 [JP 99107255]
FILED: April 14, 1999 (19990414)

INVENTOR(s): SATOMI HIROSHI
FUKUNAGA SHINJI
INOUE ATSUSHI
MASUKAWA AKIHIRO
KASAI KENJI
ITO KIMIHIRO
IZUMI JIRO

ABSTRACT

PROBLEM TO BE SOLVED: To transmit one-way Information such as advertisement information to a user by appropriate quantity and at appropriate timing by executing a prescribed operation on all the keywords of respective pieces of candidate...

... of candidate information and objective output information is selected from plural pieces of candidate information based on the total value of operation results. In an advertisement retrieval processing, a keyword list is generated in a step S3001, for example. In a step S3002, advertisement information having the keyword matched with a retrieval key is retrieved with the respective keywords as the retrieval keys based on the keyword list. In a step S3006, the most appropriate layout example is selected from the advertisement layout examples of a step S3005.

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5/3,K/7 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
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06471634 **Image available**
SALES INFORMATION PROCESSING SYSTEM

PUB. NO.: 2000-057209 [JP 2000057209 A]
PUBLISHED: February 25, 2000 (20000225)
INVENTOR(s): HAYASHI MASAHIRO
ITO KEISUKE
APPLICANT(s): DAINIPPON PRINTING CO LTD
APPL. NO.: 10-226713 [JP 98226713]
FILED: August 11, 1998 (19980811)

INVENTOR(s): HAYASHI MASAHIRO
ITO KEISUKE

ABSTRACT

PROBLEM TO BE SOLVED: To automatically and also quickly produce analytical materials shown in the state in which a product printed on an advertisement is visually associated with the sales information of the product by producing sales information layout data which arranges the sales data of each product on the display position of each product in edition data.

SOLUTION: A control unit 10 lays out sales data received from a POS system 2 on edition data expanded on a memory 14 and produces sales information layout data. Next, accumulated data obtained by the sales data and accumulation processing are arranged on edition data according to a display format set in layout setting processing. Thus, edited data in a state where numerical values showing the sales information, etc., are shown on the displaying part of each product of an advertisement printed matter, i.e., sales information layout data are obtained. The obtained sales information layout data are shown on the display 18 and are printed from a printer 20 as occasion demands.

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5/3,K/8 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01391775

Method and device for electronic mail
Verfahren und Vorrichtung fur elektronische Post
Procede et dispositif de courrier electronique
PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
Tokyo, (JP), (Proprietor designated states: all)

INVENTOR:

Satomi, Hiroshi, Canon Kabushiki Kaisha,30-2, Shimomaruko 3-chome,
Ohta-ku,Tokyo, (JP)
Inoue, Atsushi, Canon Kabushiki Kaisha,30-2, Shimomaruko 3-chome,
Ohta-ku,Tokyo, (JP)
Matsuura, Kenichiro, Canon Kabushiki Kaisha,30-2, Shimomaruko 3-chome,
Ohta-ku,Tokyo, (JP)
Igeta, Satoshi, Canon Kabushiki Kaisha,30-2, Shimomaruko 3-chome,
Ohta-ku,Tokyo, (JP)
Ito, Kosuke, Canon Kabushiki Kaisha,30-2, Shimomaruko 3-chome,
Ohta-ku,Tokyo, (JP)

LEGAL REPRESENTATIVE:

Hitching, Peter Matthew et al (9324911), Canon Europe Limited 6 Roundwood
Avenue, Stockley ParkUxbridgeUB11 1JA, (GB)

PATENT (CC, No, Kind, Date): EP 1179931 A2 020213 (Basic)
EP 1179931 A3 040303
EP 1179931 B1 090218

APPLICATION (CC, No, Date): EP 2001306732 010807;

PRIORITY (CC, No, Date): JP 2000239979 000808

DESIGNATED STATES: DE; FI; FR; GB; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04L-012/58

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

H04L-0012/58 A I F B 20060101 20011114 H EP

ABSTRACT WORD COUNT: 93

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200207	2293
CLAIMS B	(English)	200908	736
CLAIMS B	(German)	200908	673
CLAIMS B	(French)	200908	856
SPEC A	(English)	200207	16606
SPEC B	(English)	200908	16067
Total word count - document A			18903
Total word count - document B			18332
Total word count - documents A + B			37235

INVENTOR:

Satomi, Hiroshi...

...JP)

Inoue, Atsushi...

...JP)

Ito, Kosuke...

LEGAL REPRESENTATIVE:

...SPECIFICATION 7 illustrates an example of a data configuration of an IP information registration table;

Fig. 8 illustrates an example of a data configuration of an advertisement information table;

Fig. 9, composed of Figs. 9A, 9B and 9C, illustrates an example of a data configuration of a user information table;

Fig. 10...

...an order of processing in the service system in the case where the information service is executed; and

Fig. 36 is a flow chart of advertisement search processing.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Preferred embodiments of the present invention will be hereinafter described with reference to the drawings.

<System...

...to the information obtained in response to the input of the P code by the user (IP information or the like) (hereinafter referred to as advertisement information).

As an example of a service to be realized in the above-mentioned P service system, the following services are mainly described in this...

...or the IP server 400) in response to a registration application of the IP information and a P code for the IP is given.

(3) Advertisement information registration:

Advertisement information is registered in the P service server

300 (or the IP server 400) in response to a registration application of the advertisement information.

(4) Information service: A P code (P code for the IP) of desired information is inputted from the P service terminal 200, whereby a...the CPU 302 is stored in the memory 303. Information registration processing 303a is a program module for performing registration of, for example, IP information, advertisement information, user information (personal information), distribution data for distribution service and receiving service. In addition, P code issue processing 303b is a program module for assigning a P code for specifying each of registered information. Service processing 303c obtains IP information, advertisement information, mail data and distribution data or performs registration of distribution data according to a P code transmitted from the P service terminal 200. Advertisement search processing 303d searches advertisement information that should be added in print output in the P service terminal. By adding advertisement information in this way, an information output fee is covered by an advertisement fee, whereby charges born by a user at the time of information output (at the time of printing) are reduced. Reference numeral 303e denotes data output processing, which adds advertisement information obtained by the advertisement search processing to information obtained based on a P code inputted from the P service terminal 200 to perform layout on a print sheet, and generates print data to output it.

Reference numeral 304 is a communication portion, which is used for connecting with the...

...305a for a P code and an entity of contents 305b. The table group 305a includes an IP information registration table 311 (Fig. 7), an advertisement information table 312 (Fig. 8), a user information table 313 (Figs. 9A, 9B and 9C), a P code table for mailing service 314 (Fig. 10...

...terms and conditions for inserting articles. In addition, the basic property includes "a keyword list" and "a keyword weighted list", which are utilized by the advertisement search processing 303d. The entity file information specifies entity data of the IP information and includes a pass name and a file name of the...

...in the P service server 300 while others exist in the IP server 400.

Fig. 8 illustrates an example of a data configuration of the advertisement information table 312. The advertisement information table is generated and recorded when an advertiser registers advertisement information. An advertisement property, a link and entity file information of the advertisement information are stored for an assigned P code in the advertisement information table 312. Information indicating an owner of the advertisement information and terms and conditions for inserting the advertisement information are registered in the advertisement property. Further, a target keyword list and a target keyword weighted list to be utilized in the advertisement search processing 303d are stored in "information of a link to IP information" of the advertisement property.

A P code of other advertisement information to which the advertisement information should be linked is stored in the link. In addition, a pass name and a file name for specifying a file of the advertisement information are registered in the entity file

information. Further, although the entity of the advertisement information may be in either the P service server 300 or the IP server 400, the advertisement information table 312 is always stored in the P code database 305 of the P service server 300. Further, it is needless to mention that, if the entity of the advertisement information is in the IP server 400, the entity file information of the advertisement information table 312 includes information for specifying the IP server 400 (an IP server is specified by a P code in this embodiment, which will...

...information table 319. This table is a table linked to "an owner ID" in the IP information registration table shown in Fig. 7 or the advertisement information table shown in Fig. 8. Information on an owner (information provider, advertiser) is registered in the owner information table 319 as shown in Fig...

...of interest or the like can be inputted in a user profile in addition to information such as an address and a name, and an advertisement suitable for the interests of the user is searched in step S1923 using this information. In addition, the user can also sets an output format of a layout at the time of print-out (a layout pattern such as "ease of viewing is prioritized" or "the number of pages is prioritized", an amount of advertisement information, a font size, or the like). In addition, when the user registers information for a mailing service in a user information table, a dialog...

...not a fee is charged for this IP information, whether or not change of a size is allowable, whether or not automatic addition of an advertisement is permitted, a term of information validity and addition of a genre keyword for search is interactively performed. In addition, a plurality of pieces of IP information can be grouped, and information of the grouping is set as frame information.

Returning to Fig. 18, if an advertisement information registration request is inputted, the processing advances from step S1904 to step S1914, where a P code is issued, and advertisement information registration processing is executed in step S1915. In this advertisement information registration processing, the advertisement information table 312 shown in Fig. 8 is generated and registered in the P service server 300. An advertisement provider accesses the P service server 300 or the IP server 400 from a not-shown terminal owned or otherwise possessed by the advertisement provider (hereinafter referred to as an advertisement provider terminal) via the Web, whereby the registration is performed. As shown in the advertisement information table 312 of Fig. 8, information of an advertisement provider, a term of validity of advertisement insertion, a size, an inserting position, a maximum number of printing, an insertion fee of an advertisement, a keyword to be used in searching an advertisement and the like are set as an advertisement property.

In addition, if a P code is inputted from the P service terminal 200, it is determined which processing of step S1905 to step...

...data.

Further, when necessary information has been obtained in each step of S1916 to S1920, the P service server 300 determines in step S1922 a

layout for printing the obtained information on a sheet. Then, in step S1923, the P service server 300 obtains advertisement information that should be inserted in a blank on the sheet (incidentally, advertisement information in a field of the user... 7, it is evident that a P code may be issued with reference to this validity.

Further, the step of issuing a P code to advertisement information S1914 is similar to an issuing method of a P code to IP information.

<P code issue processing of electronic mail information>...

...in an area 10305.

An area 10306 is an area for displaying printing contents of a print object mail in the area 10306. Further, an "advertisement setting" button may be added to the area to allow a user to insert an advertisement together with the mail or to allow the P service server 300 to search an appropriate advertisement and a print object mail to print them altogether.

A button 10307 is pressed down when a print preview display of a print object mail...the preview image and the number of pages on the touch panel 204. Here, if an instruction of a print preview or setting of an advertisement is instructed, the P service terminal 200 properly displays a corresponding screen and receives an input from the user.

In step S12404, (8) the P...

...is substantially the same as that in the case where a P code for an information service is inputted, its description is omitted here.

<Advertisement search processing>

In a P service system, if a user obtains print output in the P service terminal 200, a fixed advertisement information is automatically added to the print except the case where the user reject it or the case where the information provider or the like rejects it. Search processing of advertisement information to be added at the time will be hereinafter described.

Fig. 36 is a flow chart of advertisement search processing.

In step S13301, a keyword list of information of an information service or a personal information service to be an object of print...

...taking socially accepted ideas into account and based on the contents on the P service system side and is used for defining a priority of advertisement information in this advertisement search processing.

In step S13302, using each keyword as a search key based on the keyword list prepared in step S13301, advertisement information having a keyword coinciding with the search key is searched. A list of the search results is prepared in step S13303. A degree of coincidence of the searched advertisement information is simultaneously calculated making use of a weight of the each keyword.

In step S13304, each piece of the advertisement information is rearranged with reference to a property and a degree of coincidence enumerated in the search result list.

In step S13305, an example layout of the advertisement information is prepared. A plurality of example layouts are prepared by picking up the pieces of advertisement information in the order of a priority from the rearranged search result list.

In step S13306, one example layout, which is considered to be the most appropriate taking a request of a user, a print size, a total charge or the like into account, is selected out of the example layouts of the advertisement information. Then, a P code, conditions of a layout and the like of the advertisement information are specified and temporarily saved, and the advertisement search processing is complete.

<Other embodiments>

Further, the present invention may be applied to a system composed of a plurality of appliances (e...

...SPECIFICATION of a data configuration of an IP information registration table;

<FIGREF IDREF=F0006>Fig. 8</FIGREF> illustrates an example of a data configuration of an advertisement information table;

<FIGREF IDREF=F0007>Fig. 9</FIGREF>, composed of <FIGREF IDREF=F0007>Figs. 9A</FIGREF>, <FIGREF IDREF=F0008>9B</FIGREF> and <FIGREF IDREF=F0009>...

...in the service system in the case where the information service is executed: and

<FIGREF IDREF=F0034>Fig. 36</FIGREF> is a flow chart of advertisement search processing.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Preferred embodiments of the present invention will be hereinafter described with reference to the drawings.

<System configuration...

...to the information obtained in response to the input of the P code by the user (IP information or the like) (hereinafter referred to as advertisement information).

As an example of a service to be realized in the above-mentioned P service system, the following services are mainly described in this...

...the IP server 400) in response to a registration application of the IP information and a P code for the IP is given.

3. (3) Advertisement information registration:

Advertisement information is registered in the P service server 300 (or the IP server 400) in response to a registration application of the advertisement information.

4. (4) Information service: A P code (P code for the IP) of desired information is inputted from the P service terminal 200, whereby...

...the CPU 302 is stored in the memory 303. Information registration processing 303a is a program module for performing registration of, for example, IP information, advertisement information, user information (personal information), distribution data for distribution service and receiving service. In addition, P code issue processing 303b is a program module for assigning a P code for specifying each of registered information. Service processing 303c obtains IP information, advertisement information, mail data and distribution data or performs registration of distribution data according to a P code transmitted from the P service terminal 200. Advertisement search

processing 303d searches advertisement information that should be added in print output in the P service terminal. By adding advertisement information in this way, an information output fee is covered by an advertisement fee, whereby charges born by a user at the time of information output (at the time of printing) are reduced. Reference numeral 303e denotes data output processing, which adds advertisement information obtained by the advertisement search processing to information obtained based on a P code inputted from the P service terminal 200 to perform layout on a print sheet, and generates print data to output it.

Reference numeral 304 is a communication portion, which is used for connecting with the...

...code and an entity of contents 305b. The table group 305a includes an IP information registration table 311 (<FIGREF IDREF=F0005>Fig. 7</FIGREF>), an advertisement information table 312 (<FIGREF IDREF=F0006>Fig. 8</FIGREF>), a user information table 313 (<FIGREF IDREF=F0007>Figs. 9A</FIGREF>, <FIGREF IDREF=F0008>9B</FIGREF>...

...terms and conditions for inserting articles. In addition, the basic property includes "a keyword list" and "a keyword weighted list", which are utilized by the advertisement search processing 303d. The entity file information specifies entity data of the IP information and includes a pass name and a file name of the...

...server 300 while others exist in the IP server 400.

<FIGREF IDREF=F0006>Fig. 8</FIGREF> illustrates an example of a data configuration of the advertisement information table 312. The advertisement information table is generated and recorded when an advertiser registers advertisement information. An advertisement property, a link and entity file information of the advertisement information are stored for an assigned P code in the advertisement information table 312. Information indicating an owner of the advertisement information and terms and conditions for inserting the advertisement information are registered in the advertisement property. Further, a target keyword list and a target keyword weighted list to be utilized in the advertisement search processing 303d are stored in "information of a link to IP information" of the advertisement property.

A P code of other advertisement information to which the advertisement information should be linked is stored in the link. In addition, a pass name and a file name for specifying a file of the advertisement information are registered in the entity file information. Further, although the entity of the advertisement information may be in either the P service server 300 or the IP server 400, the advertisement information table 312 is always stored in the P code database 305 of the P service server 300. Further, it is needless to mention that, if the entity of the advertisement information is in the IP server 400, the entity file information of the advertisement information table 312 includes information for specifying the IP server 400 (an IP server is specified by a P code in this embodiment, which will...

...table is a table linked to "an owner ID" in the IP information registration table shown in <FIGREF IDREF=F0005>Fig. 7</FIGREF> or the advertisement information table shown in <FIGREF IDREF=F0006>Fig.

8</FIGREF>. Information on an owner (information provider, advertiser) is registered in the owner information table 319...

...of interest or the like can be inputted in a user profile in addition to information such as an address and a name, and an advertisement suitable for the interests of the user is searched in step S1923 using this information. In addition, the user can also sets an output format of a layout at the time of print-out (a layout pattern such as "ease of viewing is prioritized" or "the number of pages is prioritized", an amount of advertisement information, a font size, or the like). In addition, when the user registers information for a mailing service in a user information table, a dialog...

...not a fee is charged for this IP information, whether or not change of a size is allowable, whether or not automatic addition of an advertisement is permitted, a term of information validity and addition of a genre keyword for search is interactively performed. In addition, a plurality of pieces of IP information can be grouped, and information of the grouping is set as frame information.

Returning to <FIGREF IDREF=F0017>Fig. 18</FIGREF>, if an advertisement information registration request is inputted, the processing advances from step S1904 to step S1914, where a P code is issued, and advertisement information registration processing is executed in step S1915. In this advertisement information registration processing, the advertisement information table 312 shown in <FIGREF IDREF=F0006>Fig. 8</FIGREF> is generated and registered in the P service server 300. An advertisement provider accesses the P service server 300 or the IP server 400 from a not-shown terminal owned or otherwise possessed by the advertisement provider (hereinafter referred to as an advertisement provider terminal) via the Web, whereby the registration is performed. As shown in the advertisement information table 312 of <FIGREF IDREF=F0006>Fig. 8</FIGREF>, information of an advertisement provider, a term of validity of advertisement insertion, a size, an inserting position, a maximum number of printing, an insertion fee of an advertisement, a keyword to be used in searching an advertisement and the like are set as an advertisement property.

In addition, if a P code is inputted from the P service terminal 200, it is determined which processing of step S1905 to step...data.

Further, when necessary information has been obtained in each step of S1916 to S1920, the P service server 300 determines in step S1922 a layout for printing the obtained information on a sheet. Then, in step S1923, the P service server 300 obtains advertisement information that should be inserted in a blank on the sheet (incidentally, advertisement information in a field of the user's interest is searched and obtained based on the user information table 313 of the user). Then, in...

...FIGREF>, it is evident that a P code may be issued with reference to this validity.

Further, the step of issuing a P code to advertisement information S1914 is similar to an issuing method of a P code to IP information.

Processing when an electronic mail is sent to the mail...

...in an area 10305.

An area 10306 is an area for displaying printing contents of a print object mail in the area 10306. Further, an "advertisement setting" button may be added to the area to allow a user to insert an advertisement together with the mail or to allow the P service server 300 to search an appropriate advertisement and a print object mail to print them altogether.

A button 10307 is pressed down when a print preview display of a print object mail...the preview image and the number of pages on the touch panel 204. Here, if an instruction of a print preview or setting of an advertisement is instructed, the P service terminal 200 properly displays a corresponding screen and receives an input from the user.

In step S12404, (8) the P...

...processing is substantially the same as that in the case where a P code for an information service is inputted, its description is omitted here.
<Advertisement search processing>

In a P service system, if a user obtains print output in the P service terminal 200, a fixed advertisement information is automatically added to the print except the case where the user reject it or the case where the information provider or the like rejects it. Search processing of advertisement information to be added at the time will be hereinafter described.

<FIGREF IDREF=F0034>Fig. 36</FIGREF> is a flow chart of advertisement search processing.

In step S13301, a keyword list of information of an information service or a personal information service to be an object of print...

...taking socially accepted ideas into account and based on the contents on the P service system side and is used for defining a priority of advertisement information in this advertisement search processing.

In step S13302, using each keyword as a search key based on the keyword list prepared in step S13301, advertisement information having a keyword coinciding with the search key is searched. A list of the search results is prepared in step S13303. A degree of coincidence of the searched advertisement information is simultaneously calculated making use of a weight of the each keyword.

In step S13304, each piece of the advertisement information is rearranged with reference to a property and a degree of coincidence enumerated in the search result list.

In step S13305, an example layout of the advertisement information is prepared. A plurality of example layouts are prepared by picking up the pieces of advertisement information in the order of a priority from the rearranged search result list.

In step S13306, one example layout, which is considered to be the most appropriate taking a request of a user, a print size, a total charge or the like into account, is selected out of the example layouts of the advertisement information. Then, a P code, conditions of a layout and the like of the advertisement information are specified and temporarily saved, and the advertisement search processing is complete.

<Other embodiments>

Further, the present invention may be applied to a system composed of a plurality of appliances (e.g., a...

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Information providing method, information providing system, terminal apparatus, and storage medium storing information providing program
Verfahren, System und Datenendgerät zum Bereitstellen von Informationen, und Speichermedium mit einem Programm zum Bereitstellen von Informationen

Procede, systeme et terminal pour fournir des informations, et medium de stockage avec un programme pour fournir des informations

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...SPECIFICATION a view showing a data structure example of an IP information registration table;

Fig. 8 is a view showing a data structure example of an advertisement information table;

Fig. 9 is a view showing a data structure example of a user information table;

Fig. 10 is a view showing a data...

...for setting still another property;

Fig. 53 is a dialog box for displaying the list of input items;

Fig. 54 is a flow chart of advertisement information registration processing;

Fig. 55 is a dialog box for confirming a member;

Fig. 56 is a dialog box for inputting a member's password;

Fig. 57 is a dialog box for specifying a nonmember;

Fig. 58 is a dialog box for designating advertisement information;

Fig. 59 is a dialog box showing a preview window;

Fig. 60 is a dialog box when file transfer progresses;

Fig. 61 is a...of acquiring IP information, mail data, and distribution data in the P service server 200 of this embodiment;

Fig. 104 is a flow chart of advertisement search processing;

Fig. 105A is a view showing an example of a ...of P-code designation by the user from the P service terminal 100 or the like. The other is information (to be referred to as advertisement information hereinafter) automatically selected by the P service server and attached to information (e.g., IP information) acquired in accordance with P-code input by...

...from the IP server 300, IP information is registered in the P service server 200, and a P-code for the IP is given. (3) Advertisement information registration: in accordance with an advertisement information registration application, advertisement information is registered in the P service server 200. (4) Information service: by inputting the P-code (P-code for the IP) of desired information...stores the control programs to be executed by the CPU 202. Information

registration processing 203a is a program module for registering, e.g., IP information, advertisement information, user information (personal information), the distribution data. P-code issue processing 203b is a program module for assigning a P-code for specifying each registered information. Service processing 203c acquires IP information, advertisement information, mail data, or distribution data or registers distribution data in accordance with a P-code transmitted from the P service terminal 100. Advertisement search processing 203d searches for advertisement information to be attached to a print output in the P service terminal. By attaching advertisement information, the information output charge is canceled by advertisement charges to reduce the cost for the user to bear in outputting information (printing). Data output processing 203e attaches advertisement information obtained by advertisement search processing to information obtained on the basis of a P-code input from the P service terminal 100, lays out the pieces of information...

...a table group 205a associated with P-codes and entity 205b of contents. The table group 205a includes an IP information registration table (Fig. 7), advertisement information table (Fig. 8), user information table (Fig. 9), mail service P-code table (Fig. 10), distribution service P-code table (Fig. 11), personal information...

...owner of the IP information and article insertion condition. The basic properties include a "keyword list" and "keyword weight list" which are used by the advertisement search processing 203d (details will be described later). The entity information specifies the entity data of ...table are present in the P service server 200 or IP server 300.

Fig. 8 is a view showing a data structure example of the advertisement information table. The advertisement information table is generated and recorded when an advertiser registers advertisement information. The advertisement properties, link, and entity file information of the advertisement information are stored in correspondence with an assigned P-code. The advertisement properties store information representing the owner of the advertisement information and insertion conditions of the advertisement information. The "link information to IP information" of the advertisement properties stores a target keyword list and target keyword weight list used in the advertisement search processing 203d.

The "link" stores the P-code of advertisement information to be linked. In the "entity file information", the path name and file name for specifying the file of the advertisement information are registered. The entity of the advertisement information can be present in either the P service server or IP service server. However, the advertisement information table is always stored in the P-code database 205 of the P service server 200. When the entity of advertisement information is present in the IP service server, information for specifying the IP service server is included in the entity file information of the advertisement information table (in this embodiment, the IP server is specified by the P-code, and this will be described later).

Fig. 9 is a view...

...example of an owner information table. This table is linked to the IP information registration table shown in Fig. 7 is "owner ID" in the

advertisement information table shown in Fig. 8. As shown in Fig. 14, information associated with the owner (information provider or advertiser) is registered.

Fig. 15 is...registration processing is performed. By this IP information registration processing, the IP information registration table shown in Fig. 7 is generated and registered. When an advertisement information registration request is input, the flow advances from step S104 to step S114 to issue a P-code. In step S115, advertisement information registration processing is executed. By this advertisement information registration processing, the advertisement information table as shown in Fig. 8 is generated and registered in the P service server 200.

When a P-code is input from the...

...a form of a personal P-code (telephone number) having a subcode (surfix) is issued.

When necessary information is acquired in steps S116 to S119, layout of acquired information to be printed on a paper sheet is determined in step S120. In step S121, advertisement information to be laid out in a margin on the paper sheet is acquired (advertisement information search will be described later). In step S122, ...a dialog box shown in Fig. 28 is displayed. The user can arbitrary input general personal information. The information input herein is mainly used for advertisement information search processing (to be described later in detail).

When the "personal information 2" button 1060 is clicked in the dialog box shown in Fig...

...dialog box shown in Fig. 29 is displayed. The user can arbitrarily input specific personal information. The information input herein is also mainly used for advertisement information search processing (to be described later in detail).

When the "desired information" button 1070 is clicked in the dialog box shown in Fig. 22 information associated with the checked items, attach the information to the margin portion, and output it. The checked items can also be used for advertisement information search processing.

When the "printing paper" button 1080 is clicked in the dialog box shown in Fig. 22, a dialog box shown in Fig...

...the output format. For example, when the "visibility priority" button in the dialog box shown in Fig. 31 is checked, priority is given to the layout of the print, and information obtained by the P service system is printed in a layout easy to see. When the "page count priority" check button is checked, priority is given to saving of page count, so the print cost is expected to be saved. When "details" button is clicked, desired conditions can be selected and designated from a plurality of layout patterns, the amount of advertisement information, and font sizes, which are registered on the P service system.

When the "favorite information registration" button 1090 is clicked in the dialog box...required because size reduction may be required on the P service terminal 100 side due to the paper of the P service terminal 100 or layout of a plurality of IP information output to one paper sheet. If the size can be freely changed on the P service terminal 100 side...

...dialog box shown in Fig. 46 is displayed to set still another property.

In this dialog box, whether the information provider permits automatic attachment of advertisement information when the IP information registered is output from ...P service terminal 100 is set. The information provider checks one of the radio buttons "permit", "permit for lower surface", "not permit" to select setting. Advertisement information is attached within the selected range. When "next" is selected in the dialog box shown in Fig. 46, a dialog box shown in Fig...

...another property.

In this dialog box, the genre and keywords of IP information to be registered are input such that they can be used for advertisement search processing. The items to be input are "genre", "subgenre", and "keyword". "Genre" and "subgenre" are listed in drop-down list boxes. For example, when...

...can be set by the "add" button, and the set keyword can be canceled by the "delete" button.

When the check box "negative link to advertisement" is checked, selection of advertisement information inappropriate to the contents of the registered IP information can be avoided.

Instead of or together with setting the property in the dialog box...

...set.

In the dialog box shown in Fig. 51, the title and summary of the registered IP information are input. This summary is used for advertisement search processing. In addition, when the IP information is requested in the information service, the summary is temporarily disclosed to the user instead of immediately...registration processing. This will be described later with reference to Figs. 71 to 74.

In this way, the entire IP information registration processing is ended.

<Advertisement Information Registration>

In the P service system, an advertisement provider who provides advertisement information must register the contents of advertisement information in the P service server 200 or IP server 300.

To do this registration, the advertisement provider accesses the P service server 200 or IP server 300 from a terminal (not shown) (to be referred to as an advertisement provider terminal hereinafter) of the advertisement provider through the Web or presents a storage medium such as a CD-ROM in which contents of advertisement information are stored to the operator of the P service system.

The procedure of advertisement information registration will be described below by exemplifying a case wherein the advertisement provider registers advertisement information in the P service server 200 through the Web.

When the advertisement provider accesses advertisement information registration in the P service server 200 from the advertisement provider terminal, the P service server 200 executes processing in step S114 in Fig. 19 and internally issues a P-code for advertisement information. This P-code is exclusively used for internal processing of the P service server 200 and therefore is not disclosed to the advertisement provider in principle.

After that, the flow advances to step S115 to execute

advertisement information registration processing.

Fig. 54 is a flow chart of advertisement information registration processing.

In this advertisement information registration processing, windows for advertisement information registration are displayed on the display of the advertisement provider terminal, and the advertisement provider is caused to input matters to be registered by so-called GUI, as in the above-described user registration processing and IP information registration processing.

In step S1050, a dialog box shown in Fig. 55 is displayed, and it is determined whether the advertisement provider is a member of the P service system. A member means a person who has made an application as an information provider in advance. A nonmember cannot provide advertisement information because advertisement insertion is charged for. A membership number and password are assigned in accordance with an application.

When the advertisement provider is a member, he/she checks the radio button "Yes" in this dialog box and also inputs the membership number. When the advertisement provider is a nonmember, he/she checks the radio button "No". When "next" is clicked, the flow advances to step S1051 for a nonmember. For a member, a dialog box shown in Fig. 56 is displayed to request to input a password. If the password input by the advertisement provider is authentic, the flow advances to step S1052.

When "next" is clicked in each dialog box, input information is stored, and the flow advances...

...storing input information. This also applies to the following processing.

In step S1051, a dialog box shown in Fig. 57 is displayed to cause the advertisement provider as a nonmember to input information for specifying the advertisement provider. This is because advertisement insertion is charged for, as described above. After the input, when "next" is clicked, the flow advances to step S1052.

In step S1052, a dialog box shown in Fig. 58 is displayed to designate advertisement information to be registered. The advertisement provider inputs the file name of the entity (contents) of advertisement information stored in the advertisement provider terminal. In this case, a plurality of file names can be designated. The functions of the "designate file" and "delete" buttons are the same as in the above-described IP information registration processing shown in Fig. 40. The advertisement information to be registered may be either an image or character information.

When "next" is selected in the dialog box shown in Fig. 58, the flow advances to step S1053.

In step S1053, the contents of the designated file are displayed as a preview (Fig. 59), and the advertisement provider is made to confirm it. After the confirmation, when the advertisement provider clicks the "next", a dialog box shown in Fig. 60 is displayed, and the designated file is transferred to the P service server 200. After the transfer, the flow advances to step S1054.

In step S1054, a property of the transferred advertisement information is set. In setting the property, a dialog box shown in Fig. 61 is displayed, so the date of start of insertion and valid dates (due date of insertion) of the advertisement information can be set. When "next" is clicked in the dialog box shown in Fig. 61, a dialog box

shown in Fig. 62 is displayed to set another property.

In this dialog box, a method of linking the advertisement information to IP information in which insertion of the advertisement information is requested is set. In accordance with the display of the dialog box, insertion of the advertisement information into IP information common in association with any one of the region, age group, sex, and keyword or contents of information can be designated...

...a dialog box shown, in Fig. 64 is displayed to set still another property.

In this dialog box, the size and the like of the advertisement information transferred to the P service server 200 are displayed. The advertisement provider can designate the size in printing, enable/disable state of enlargement/reduction of advertisement information, and print position. For example, when the right arrow of the drop-down list box of the print size selection column is clicked, the list of print sizes is displayed, as shown in Fig. 65, and the advertisement provider can select a desired print size. When "next" is selected in the dialog box shown in Fig. 64, a dialog box shown in Fig. 66 is displayed to set still another property.

In this dialog box, the insertion scheme of the advertisement information to be printed is set. The advertisement provider can check the check box of a desired limitation item to impose the limitation. Except the limitation items shown in Fig. 66, a limitation...

...contents corresponding to color or monochrome print, insertion at the same position when a plurality of pages are printed, or generation of a series of advertisement information. When "next" is selected in the dialog box shown in Fig. 66, a dialog box shown in Fig. 67 is displayed to set still another property.

In this dialog box, a charge for insertion of the advertisement information is set. In this dialog box, a charge per insertion of advertisement information is displayed, and the limit of the total charge can be designated by setting the print count or the upper limit of charge for insertion. When the radio box "designate maximum print count" is checked, the count can also be designated. When the radio box "designate upper limit of advertisement charge" is checked, the upper limit of charge for insertion can also be designated.

Property setting in step S1054 is ended, and the flow advances...

...dialog box shown in Fig. 68 is displayed. The list of input matters is displayed. The P-code is not displayed in principle. When the advertisement provider confirms the display and clicks the "register" button, the flow advances to step S1056. When the "register" button is clicked, a dialog box shown in Fig. 69 may be displayed to allow the advertisement provider terminal to print the particulars of the registered advertisement information.

In step S1056, the P service server 200 stores the information input by the above processing in the advertisement information table shown in Fig. 8 in correspondence with the P-code issued in advance. The information may be transferred to the IP server 300. The P service server 200 always holds the properties (advertisement information table) of the registered advertisement information. However, the entity (contents) itself can be held by either the P service server 200 or IP server 300.

When the advertisement provider will register advertisement information not in the P service server 200 but in the IP server 300 from the advertisement provider terminal, registration is generally done according to the above-described procedure.

In this case, the P service server 200 allocates a usable P-code...

...the allocated area. The IP server 300 finally transfers the assigned P-code and its table information to the P service server 200 to perform advertisement information registration processing.

In this way, the entire advertisement information registration processing is ended.

<P-code Issue Processing>

P-code issue processing in steps S111, S112, and S114 in Fig. 19 will be described...temporary issue of another IP code and determination are repeated until an IP code is finally issued.

The procedure of issuing a P-code for advertisement information is basically the same as the procedure of issuing a P-code for IP information.

<Description of Various Services>

Details of information acquisition processing...information in printing the information displayed in the area 2027 is displayed. The area 2028 has a button 2028a which is pressed to print an advertisement together with the information. When the button 2028a is pressed, a window shown in Fig. 28 is displayed to set advertisement insertion conditions. This window will be described later in detail.

A button 2029 is pressed to display the print preview of information to be printed...

...the window 2025 shown in Fig. 80 is pressed, a window 2038 shown in Fig. 82 is displayed.

In the window 2038, insertion conditions of advertisements to be printed together with information to be printed are set. In the window 2038, the insertion condition set item group (in this embodiment, "print ...

...acknowledge the set insertion conditions. A button 2041 is pressed to cancel the set insertion conditions.

In the window 2038, the user can set the advertisement insertion conditions. Instead, the P service server 200 may search for an appropriate advertisement for information to be printed such that the charge for printing the information to be printed is nullified, and generate print data constructed by the searched advertisement and information to be printed. Advertisement search processing by the P service server 200 will be described later.

Next, a window for executing the mail service, which is displayed when the...

...this area, the button 2028a in the window 2025 shown in Fig. 80 may be displayed to allow the user to set insertion of an advertisement to the mail, or an appropriate advertisement for the mail to be printed may be searched by the P service server 200.

A button 2048 is pressed to display a print preview...including the property data, preview image, and the number of pages, on the touch panel 104 (Fig. 80). If a print preview or setting for advertisements is instructed, corresponding windows (Figs. 81 and 82) are appropriately

displayed to receive inputs from the user.

In step S2504, (8) it is determined whether...acquisition of IP information (the above-described processing in steps S3202 to S3207) is executed using the P-code registered in the P-code list.

<Advertisement Search Processing>

In the P service system, when a user obtains a print output from the P service terminal 100, predetermined advertisement information is automatically attached to the print unless the user or information provider rejects it. Processing of searching for advertisement information to be attached will be described below.

Fig. 104 is a flow chart of advertisement search processing.

In step S3001, a keyword list of information of the information service or personal information service, mail of the mail service, or information ...

...numerical value is given to each keyword in consideration of universally accepted idea on the basis of the contents and used to define priority of advertisement information in advertisement search processing. A numerical value with "+" means that IP information or the like including the keyword has positive contents when viewed from the universally accepted...lowest priority keyword list set on the system side can be prepared.

The highest priority keyword list is a list of keywords corresponding to an advertisement that informs, e.g., a special campaign held on the P service system. An example of this keyword list is shown in Fig. 105D.

The lowest priority keyword list is a list of keywords with which at least one advertisement information can be searched for and is prepared to prevent advertisement search processing from searching no advertisement information. Hence, as a lowest priority keyword, a keyword having wide meaning is used.

In step S3002, using each keyword as a search key on the basis of the keyword lists prepared in step S3001, advertisement information having a keyword matching the search keyword is searched for. In step S3003, the search result list is prepared.

Figs. 106A to 106E are...

...five keyword lists.

Fig. 106A shows a search result list corresponding to the keyword list of IP information (Fig. 105A), in which five pieces of advertisement information are searched for by the keyword "marriage". In this list, "weight" is a numerical value given to the keyword in each advertisement information and has the same meaning as the above-described "weight". The "degree of matching" is a numeral value obtained by multiplying the numerical value...

...in Fig. 106A are filled with results obtained by multiplying "+10" by each of weights "+10", "-5", "+3", "-4", and "+7" of the keywords of advertisement information.

In this advertisement search processing, an advertisement having a larger value of "degree of matching" has a higher priority of insertion. As the value becomes small, the priority becomes low.

As shown in Figs. 106A and 106B, a single keyword has many weights. This is because advertisement information including the keyword "marriage" may be an advertisement of a wedding ceremony hall or an

advertisement of divorce consultation. If they are regarded to be equivalent, inappropriate advertisement information may be inserted into contents of information to be printed.

In processing of this embodiment, if negative advertisement information is searched for in correspondence with positive IP information, values with signs "+" and "-" are multiplied. The degree of matching has a negative value, and the priority can be made low. If negative advertisement information is searched for in correspondence with negative IP information (e.g., an advertisement of funeral and an advertisement of a hospital), values with signs "-" and "-" are multiplied. The degree of matching has a positive value, and the priority becomes high.

In step S3004, the pieces of advertisement information in the search result list are rearranged by looking up the properties of advertisement information.

In rearranging the pieces of information, on the basis of the properties of each advertisement information, a value is added to or subtracted from the degree of matching calculated in advance. For example, an advertisement whose term of insertion has expired or charge exceeds the maximum charge must not be inserted, and a predetermined numerical value can be subtracted from the calculated degree of matching. On the other hand, for an advertisement whose limitations on printing (designated in the dialog box shown in Fig. 65 or 66) are lenient, a predetermined numerical value can be added to the calculated degree of matching for evaluation. This is because such advertisement information can cope with an arbitrary layout and has a higher degree of freedom for printing.

To evenly give opportunities for insertion while giving priority to an advertisement with low insertion frequency, a numerical value corresponding to the insertion frequency may be added to the degree of matching.

In addition, a predetermined numerical value may be added to the degree of matching with priority given to an advertisement for which a large charge is paid from the advertisement provider to the operator of the P service. An advertisement provider who pays a large charge should be treated favorably. This also easily excuses the user compensation for the received service.

With priority given to an advertisement directly associated with information desired by the user, a predetermined numerical value may be added to the degree of matching for the purpose of increasing the business chance of the advertisement provider.

In this way, values are added to or subtracted from the degrees of matching to calculate final numerical values. Figs. 107A to 107E show lists of advertisement information rearranged in descending order of the magnitudes of values. As is apparent from Figs. 107A to 107E, the degree of matching is not always proportional to the numerical value of "weight".

In step S3005, a layout example of advertisement information is prepared. A plurality of layout examples are prepared by picking up pieces of advertisement information from the search result lists shown in Figs. 107A to 107E in descending order of priority.

Priorities may be defined in units of search result lists shown in Figs. 107A to 107E. For example, first advertisement information may be picked up from the search result list of the highest priority list (Fig. 107D), and then pieces of advertisement information may be

sequentially picked up from the search result list of IP information (Fig. 107A), the search result list of user registration (Fig. 107B...

...result list of the P service terminal (Fig. 107C), and the search result list of the lowest priority list (Fig. 107E).

In step S3006, one layout example that is supposed to be most appropriate is selected from the layout examples of advertisement information in consideration of the user's desire, print size, and total charge. The P-code and layout conditions of the advertisement information are specified and temporarily stored, and advertisement search processing is ended.

<Operation of Portable Terminal>

The P-code extraction function and P-code transmission function of the portable terminal 400 according to...

...CLAIMS herself can expect contents or type of the first information.

5. The method according to claim 1, characterized in that the second information contains arbitrary advertisement information.
6. The method according to claim 1, characterized in that the predetermined condition is a condition that attachment of the second information is permitted...

...database stores a plurality of information extractable as the first information each of which has a code, and the second database stores a plurality of advertisement information extractable as the second information each of which has a code.

10. The method according to claim 1, characterized in that a plurality of ...herself can expect contents or type of the first information.
33. The system according to claim 29, characterized in that the second information contains arbitrary advertisement information.
34. The system according to claim 29, characterized in that the predetermined condition is a condition that attachment of the second information is permitted...

...database stores a plurality of information extractable as the first information each of which has a code, and the second database stores a plurality of advertisement information extractable as the second information each of which has a code.

38. The system according to claim 29, characterized in that a plurality of ...herself can expect contents or type of the first information.
64. The medium according to claim 60, characterized in that the second information contains arbitrary advertisement information.
65. The medium according to claim 60, characterized in that the predetermined condition is a condition that attachment of the second information is permitted...

...plurality of information extractable as the first information each of which has a code, and the second database is caused to store a plurality of advertisement information extractable as the second information each of which has a code.

69. The medium according to claim 60, characterized in that said program is...

5/3,K/10 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01196772

Information fetching control scheme using data type dependent strategy for
reducing user response time

Verfahren zum Steuern des Abrufs von Information mit einer vom Datentyp
abhängigen Strategie um die Antwortzeit für die Verbraucher zu
verringern

Procede de controle de l'extraction d'informations utilisant une strategie
dependante du type de donnees pour reduire le temps de reponse a
l'utilisateur

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PATENT (CC, No, Kind, Date): EP 1041497 A2 001004 (Basic)
EP 1041497 A3 020206
EP 1041497 B1 050119

APPLICATION (CC, No, Date): EP 2000302729 000331;

PRIORITY (CC, No, Date): JP 9993757 990331

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-017/30

ABSTRACT WORD COUNT: 161

NOTE:

Figure number on first page: 1

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Available Text	Language	Update	Word Count
CLAIMS A	(English)	200040	952
CLAIMS B	(English)	200503	1178
CLAIMS B	(German)	200503	1075
CLAIMS B	(French)	200503	1331
SPEC A	(English)	200040	9167
SPEC B	(English)	200503	8824
Total word count - document A			10121
Total word count - document B			12408
Total word count - documents A + B			22529

INVENTOR:

... JP)

Ito, Kiyoshi, c/o Intellectual Property Div...
LEGAL REPRESENTATIVE:

...SPECIFICATION data analysis unit 35 analyzes the received HTML data, and presents that page to the user from the input/output unit 32 in a specified layout. In this embodiment, depending on the analysis result of the data analysis unit 35, the received HTML data is converted at the data conversion unit...of Fig. 14 are related to sizes and the number of images, rules shown in a part (e) of Fig. 14 are related to the advertisement images, and rules shown in Fig. 15 are related to the data types of the multimedia data. Fig. 16 shows rules for judging whether the...

...that it is a HTML page, for example), and the comment information related to the data (such as surrounding comments indicating that it is an advertisement image, for example).

The data types to be guessed here include: data to be generated dynamically; less important data such as advertisement or background image (data that only contribute to the attractiveness of the appearance); multimedia data such as still images, video images, speeches and 3D models...

...is guessed as less important data from the comment information, the data fetching strategy of not fetching this data can be used. For instance, the advertisement data will not be fetched.

When it is guessed as less important data from the comment information, the data fetching strategy of generating the substitute data can be used. For instance, the substitute data indicating a name of the corporation who is a host of the advertisement image will be generated and displayed instead of displaying the advertisement image itself.

When it is guessed as less important data from the tag information, the data fetching strategy of not fetching this data can be...

...of generating the substitute data can be used. For instance, the substitute data indicating a name of the corporation who is a host of the advertisement image will be generated and displayed instead of displaying the advertisement image itself.

When it is guessed as multimedia data from an extension of the information indicating the data location, the data fetching strategy of not...

...SPECIFICATION data analysis unit 35 analyzes the received HTML data, and presents that page to the user from the input/output unit 32 in a specified layout. In this embodiment, depending on the analysis result of the data analysis unit 35, the received HTML data is converted at the data conversion unit...of Fig. 14 are related to sizes and the number of images, rules shown in a part (e) of Fig. 14 are related to the advertisement images, and rules shown in Fig. 15 are related to the data types of the multimedia data. Fig. 16 shows rules for judging whether the...

...that it is a HTML page, for example), and the comment information related to the data (such as surrounding comments indicating that it is an advertisement image, for example).

The data types to be guessed here include: data to be generated dynamically; less important data such as advertisement or

background image (data that only contribute to the attractiveness of the appearance); multimedia data such as still images, video images, speeches and 3D models...

...is guessed as less important data from the comment information, the data fetching strategy of not fetching this data can be used. For instance, the advertisement data will not be fetched.

When it is guessed as less important data from the comment information, the data fetching strategy of generating the substitute data can be used. For instance, the substitute data indicating a name of the corporation who is a host of the advertisement image will be generated and displayed instead of displaying the advertisement image itself.

When it is guessed as less important data from the tag information, the data fetching strategy of not fetching this data can be...

...of generating the substitute data can be used. For instance, the substitute data indicating a name of the corporation who is a host of the advertisement image will be generated and displayed instead of displaying the advertisement image itself.

When it is guessed as multimedia data from an extension of the information indicating the data location, the data fetching strategy of not...

...CLAIMS a program, a page with many links or images, and a large image.

6. The system of claim 5, wherein the less important data include advertisement data and background image data.

7. The system of claim 5, wherein the multimedia data include still image data, animation/video image data, speech/sound...

...CLAIMS images, and a large image.

6. The system (10, 20, 40, 60, 72, 74, 80, 82) of claim 5, wherein the less important data include advertisement data and background image data.

7. The system (10, 20, 40, 60, 72, 74, 80, 82) of claim 5, wherein the multimedia data include still...

?

? t2/3,k/all

2/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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06771196 **Image available**
DEVICE AND METHOD FOR INFORMATION PROCESSING, AND COMPUTER-READABLE
RECORDING MEDIUM STORED WITH INFORMATION PROCESSING PROGRAM

PUB. NO.: 2000-357070 [JP 2000357070 A]
PUBLISHED: December 26, 2000 (20001226)
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FUKUNAGA SHINJI
INOUE ATSUSHI
KASAI KENJI
ITO KIMIHIRO
IZUMI JIRO

TAMATOSHI MASATO
HIKUMA YASUSHI
APPLICANT(s): CANON INC
APPL. NO.: 11-361128 [JP 99361128]
FILED: December 20, 1999 (19991220)
PRIORITY: 11-106517 [JP 99106517], JP (Japan), April 14, 1999
(19990414)
INVENTOR(s): SATOMI HIROSHI
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KASAI KENJI
ITO KIMIHIRO
IZUMI JIRO
TAMATOSHI MASATO
HIKUMA YASUSHI

ABSTRACT

... layout of additional information according to attribute information regarding the additional information.

SOLUTION: The ratio of the quantity of advertisement is determined first and an advertisement area in a layout is secured (S2001). According to a priority flag, it is decided whether print data are generated with priority given to the easiness...

2/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
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06771195 **Image available**
DEVICE AND METHOD FOR INFORMATION PROCESSING, AND COMPUTER-READABLE RECORDING MEDIUM STORED WITH INFORMATION PROCESSING PROGRAM

PUB. NO.: 2000-357069 [JP 2000357069 A]
PUBLISHED: December 26, 2000 (20001226)
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KASAI KENJI
ITO KIMIHIRO
IZUMI JIRO
TAMATOSHI MASATO
HIKUMA YASUSHI
APPLICANT(s): CANON INC
APPL. NO.: 11-360675 [JP 99360675]
FILED: December 20, 1999 (19991220)
PRIORITY: 11-106537 [JP 99106537], JP (Japan), April 14, 1999
(19990414)
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INOUE ATSUSHI
KASAI KENJI

ITO KIMIHIRO
IZUMI JIRO
TAMATOSHI MASATO
HIKUMA YASUSHI

ABSTRACT

... layout is used for all the services, the quantity of advertisement is secured with the specific layout (S8003). At this time, the size of an advertisement area is based upon the ratio of the quantity of advertisement. When the layouts which are different by the services are used, advertisement areas are secured...

2/3,K/3 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2009 European Patent Office. All rts. reserv.

01201298

Information providing system and method therefor
System und Verfahren zum Bereitstellen von Informationen
Systeme et procede pour fournir des informations

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PATENT (CC, No, Kind, Date): EP 1045323 A2 001018 (Basic)
EP 1045323 A3 090506

APPLICATION (CC, No, Date): EP 2000303127 000413;

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99361129 991220; JP 99360673 991220

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-017/60

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G06F-0017/60 A I F B 00000000 20000713 H EP

ABSTRACT WORD COUNT: 89

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Figure number on first page: 1

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CLAIMS A	(English)	200042	2196
SPEC A	(English)	200042	31654
Total word count - document A			33856
Total word count - document B			0
Total word count - documents A + B			33856

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Izumi, Jiro,c/o Canon Kabushiki Kaisha...

LEGAL REPRESENTATIVE:

...SPECIFICATION unit 100 in a layout determining process;

Fig. 21 is a flow chart showing the control sequence of the CanDINet control unit 100 in an advertisement area determining process;

Fig. 22 is a flow chart showing the control sequence of the ...a view showing different kinds of layout;

Fig. 80 is a flow chart showing the control sequence of the CanDINet control unit 100 in an advertisement area securing process;

Figs. 81 and 82 are flow charts showing the control sequence of the CanDINet control unit 100 in displaying a registration frame image;

Fig. 83 is a flow chart showing the control sequence of the CanDINet control unit 100 in an advertisement area determining process on the front surface;

Fig. 84 is a flow chart showing the control sequence of the CanDINet control unit 100 in an advertisement area determining process on the back surface; and

Fig. 85 is a flow chart showing the control sequence of the CanDINet

control unit 100 in an advertisement area determining process on a separate sheet.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

(First embodiment)

Fig. 1 is a view showing an embodiment of the information...flow chart showing the function of the CanDINet control unit 100 in the layout determination process. At first the CanDINet control unit 100 executes an advertisement area securing process for securing an advertisement area (step S2001).

Fig. 80 is a flow chart showing the function of the CanDINet control unit 100 in the advertisement area securing process. At first there is determined the ratio of the amount of advertisement (step S8001). In the present embodiment, the advertisement ratio is selected...

...2) printing the advertisement on the separate sheet, the advertisement ratio in this stage is selected as 0. It is however memorized to form an advertisement area on the back side in case of selection (1), and to form an advertisement area on another sheet in case of selection (2).

Then there is discriminated whether a predetermined layout is to be used for all the services, or...

...mode of the CanDINet control unit 100 for providing the advertisement service.

If the predetermined layout is to be used for all the services, the advertisement area is secured with such predetermined layout. In this case, the size of the advertisement area follows the ratio of amount of the advertisement. In the present embodiment, the predetermined layout is given by 7902 in Fig. 79.

If the layout is to be changed according to the service type, the advertisement area is secured with a layout corresponding to each service type. Also in this case, the size of the advertisement area follows the ratio of amount of the advertisement. In the present embodiment, the layout for the mail print service is given by 7901 or 7902...

...tries to secure the area of the information size for placing such information data but such area overflows from the sheet size or invades the advertisement area, the layout is made on the next page.

If the priority is given to the page number in generating the print data (step S2002 - No...

...present (step S2010 - No), the area containing the information data is enlarged within an extent not overflowing from the sheet size and not invading the advertisement area (step S2012), thereby expanding the information data as far as possible.

If the step S2009 places the information data and tries to secure the area of the information size for placing such information data but such area overflows from the sheet size or invades the advertisement area, the layout is made on the next page.

(Advertisement area determination process)

In the following there will be explained a process for determining the advertisement area. Fig. 21 is a flow chart showing the function of the CanDINet control unit 100 in determining the

advertisement area.

At first, the advertisement area is selected as the print area by the printing unit of the kiosk terminal minus the information data area (step S2101).

Then there is prepared...

...select one of such predetermined sizes at the registration of the advertisement.

Then there is discriminated whether the advertisement size can be accommodated in the advertisement area (step S2103). If accommodatable (step S2103 - Yes), there is secured an advertisement area of such advertisement size (step S2104), and the advertisement area is defined as the remaining advertisement area after such securing (step S2105).

If the advertisement size cannot be accommodated in the advertisement area (step S2103 - No), there is discriminated whether the advertisement size is the smallest advertisement size (step S2106). If there is a smaller advertisement size (step...

...step S2104, there are memorized the secured advertisement size and the secured location.

In the following there will be explained the process of determining the advertisement area in case the advertisement is to be printed on the back side or on another sheet. Figs. 83 to 85 are flow charts showing the function of the CanDINet control unit 100 in determining the advertisement area.

At first, the advertisement area is selected as the print area by the printing unit of the kiosk terminal minus the information data area (step S8301).

Then there is prepared...

...select one of such predetermined sizes at the registration of the advertisement.

Then there is discriminated whether the advertisement size can be accommodated in the advertisement area (step S8303). If accommodatable (step S8303 - Yes), there is secured an advertisement area of such advertisement size (step S8304), and the advertisement area is defined as the remaining advertisement area after such securing (step S8305).

If the advertisement size cannot be accommodated in the advertisement area (step S8303 - No), there is discriminated whether the advertisement size is the smallest advertisement size (step S8306). If there is a smaller advertisement size (step...

...smaller advertisement size (step S8306 - Yes), the sequence proceeds to a step S84 in Fig. 84.

A flow chart shown in Fig. 84 determines the advertisement area in case the advertisement area is secured on the back side. For this purpose, there is at first discriminated whether an advertisement area is secured on the back side (step S8401). The discrimination is made by checking whether the step S8001 in Fig. 80 has memorized securing the advertisement area on the back side.

If the advertisement area is secured on the back side, the advertisement area is selected as the print area by the printing unit of the kiosk terminal minus the information data area (step

S8402). Steps S8403 to 8408...

...83. In case the step S8407 identifies the absence of smaller advertisement size, the sequence proceeds to a step S8501 in Fig. 85.

When an advertisement area is secured in another sheet, the flow chart in Fig. 85 executes a process for determining the advertisement area. For this purpose, there is at first discriminated whether an advertisement area is secured on another sheet (step S8501). The discrimination is made by checking whether the step S8001 in Fig. 80 has memorized securing the advertisement area on another sheet.

If the advertisement area is secured on another sheet, the advertisement area is selected as the print area by the printing unit of the kiosk terminal (step S8502). Steps S8503 to 8508 will not be explained as they are similar to the step S8303 to S8308 in Fig. 83. In case the step S8507 identifies the absence of smaller advertisement size, the advertisement area determining process is terminated. The steps S8304, S8404 and S8504 memorize the secured advertisement size and the secured location.

In an example shown in Fig...

[Insert]

III. Text Search Results from Dialog

A. Full-Text Databases

? show files;ds

File 15:ABI/Inform(R) 1971-2009/Sep 12
(c) 2009 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2009/Aug 19
(c) 2009 Gale/Cengage
File 148:Gale Group Trade & Industry DB 1976-2009/Aug 26
(c) 2009 Gale/Cengage
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2009/Aug 13
(c) 2009 Gale/Cengage
File 621:Gale Group New Prod.Annou.(R) 1985-2009/Aug 05
(c) 2009 Gale/Cengage
File 9:Business & Industry(R) Jul/1994-2009/Sep 12
(c) 2009 Gale/Cengage
File 20:Dialog Global Reporter 1997-2009/Sep 13
(c) 2009 Dialog
File 610:Business Wire 1999-2009/Sep 14
(c) 2009 Business Wire.
File 613:PR Newswire 1999-2009/Sep 14
(c) 2009 PR Newswire Association Inc
File 24:CSA Life Sciences Abstracts 1966-2009/Sep
(c) 2009 CSA.
File 634:San Jose Mercury Jun 1985-2009/Sep 11
(c) 2009 San Jose Mercury News
File 636:Gale Group Newsletter DB(TM) 1987-2009/Aug 19
(c) 2009 Gale/Cengage
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
File 13:BAMP 2009/Sep 10
(c) 2009 Gale/Cengage
File 75:TGG Management Contents(R) 86-2009/Aug W3
(c) 2009 Gale/Cengage
File 95:TEME-Technology & Management 1989-2009/Aug W3
(c) 2009 FIZ TECHNIK
File 348:EUROPEAN PATENTS 1978-200937
(c) 2009 European Patent Office
File 349:PCT FULLTEXT 1979-2009/UB=20090910|UT=20090903
(c) 2009 WIPO/Thomson

Set	Items	Description
S1	2195	(PRINT() (DATA OR INFORMATION)) (8N) (FORMAT? OR ARRANG? OR C- ONFIGUR? OR ORGANIZ? OR ORGANIS? OR LAYOUT? ? OR (LAY OR LAID-) ()OUT OR STRUCTUR??? OR PLACING OR POSITION??? OR TEMPLATE)
S2	55613	(PAPER OR SHEET) (3W) (SIZE OR DIMENSION? ? OR LENGTH OR WID- TH OR AREA OR CONFIGURATION)
S3	13447	(AD OR ADS OR ADVERTISEMENT OR PROMOTION OR COUPON OR SLOG- AN) (3W) (SIZE OR DIMENSION? ? OR LENGTH OR WIDTH OR AREA OR CO- NFIGURATION)

S4 169256 (PRINT OR PRINTING OR PRINTS OR OUTPUT?) (6N) (COST OR FEE OR PRICE)
S5 1138091 BAR()COD? OR BARCOD? OR INDICIUM OR INDICATOR
S6 6 S1 AND S2 AND S3 AND S4 AND S5
S7 6 S1 AND S2 AND S3 AND S4
S8 7 S1 AND S2 AND S3
S9 471 S1 AND S2
S10 66 S1(60N)S2
S11 62 S10 FROM 348,349
S12 24 S11 NOT AY>1999
S13 30 S6:S8 OR S12
? t13/3,k/all

13/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2009 European Patent Office. All rts. reserv.

02673468
Image forming apparatus for managing copy sheets individually
Bilderzeugungsgerat zum Verwalten einzelner Kopierblatter
Appareil de formation d'image pour gerer des feuilles de tirage individuelles

PATENT ASSIGNEE:

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INVENTOR:

Tachibana, Tatsutoc/o CANON KABUSHIKI KAISHA, 30-2, Shimomaruko 3-chome,
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Ohta-ku, Tokyo Tokyo 146-8501, (JP)

LEGAL REPRESENTATIVE:

TBK-Patent (102381), Bavariaring 4-6, 80336 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 2051144 A1 090422 (Basic)
APPLICATION (CC, No, Date): EP 2008173083 990928;
PRIORITY (CC, No, Date): JP 98275930 980929; JP 99267051 990921; JP
99267057 990921

DESIGNATED STATES: DE; FR; GB; IT

RELATED PARENT NUMBER(S) - PN (AN):

EP 997787 (EP 99119277)

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G03G-0015/00 A I F B 20060101 20090312 H EP

ABSTRACT WORD COUNT: 150

NOTE:

Figure number on first page: 15

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200917	700
SPEC A	(English)	200917	13763
Total word count - document A			14463

Total word count - document B 0
Total word count - documents A + B 14463

...SPECIFICATION 16</FIGREF> is a view showing the conceptual structure of the print reservation table, in which the reserved ID codes and the pointers to the print information memory areas for the respective ID's, arranged in the order of printing. In the image print information memory unit 311, there is provided an area for collectively storing, for each ID, the above-mentioned print information such as the source of sheet feeding, destination of sheet discharge, sheet size etc. The pointer to the print information memory area includes a print reservation pointer and a print execution pointer, and designates the print information memory...

13/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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02622335

Image forming apparatus for image formation on sheet
Bilderzeugungsvorrichtung zur Bilderzeugung auf einer Folie
Appareil de formation d'images pour la formation d'images sur une feuille
PATENT ASSIGNEE:

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Tokyo 146-8501, (JP), (Applicant designated States: all)

INVENTOR:

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Tokyo Tokyo 146-8501, (JP)

LEGAL REPRESENTATIVE:

TBK-Patent (102381), Bavariaring 4-6, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 2019342 A1 090128 (Basic)

APPLICATION (CC, No, Date): EP 2008163519 990928;

PRIORITY (CC, No, Date): JP 98275930 980929; JP 99267051 990921; JP
99267057 990921

DESIGNATED STATES: DE; FR; GB; IT

RELATED PARENT NUMBER(S) - PN (AN):

EP 997787 (EP 99119277)

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G03G-0015/00 A I F B 20060101 20081128 H EP

ABSTRACT WORD COUNT: 52

NOTE:

Figure number on first page: 8

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200905	617
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SPEC A	(English)	200905	13766
--------	-----------	--------	-------

Total word count - document A 14383
Total word count - document B 0
Total word count - documents A + B 14383

...SPECIFICATION 16</FIGREF> is a view showing the conceptual structure of the print reservation table, in which the reserved ID codes and the pointers to the print information memory areas for the respective ID's, arranged in the order of printing. In the image print information memory unit 311, there is provided an area for collectively storing, for each ID, the above-mentioned print information such as the source of sheet feeding, destination of sheet discharge, sheet size etc. The pointer to the print information memory area includes a print reservation pointer and a print execution pointer, and designates the print information memory...

13/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2009 European Patent Office. All rts. reserv.

02293170

Printer

Drucker

Imprimante

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542366), 3-30-2, Shimomaruko,, Ohta-kuTokyo,
(JP), (Applicant designated States: all)

INVENTOR:

Hayashi, Eiji, c/o Canon Kabushiki Kaisha3-30-2, Shimomaruko,Ohta-ku,
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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1811430 A2 070725 (Basic)
EP 1811430 A3 090819

APPLICATION (CC, No, Date): EP 2007007756 980909;

PRIORITY (CC, No, Date): JP 97247213 970911

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

RELATED PARENT NUMBER(S) - PN (AN):

EP 902391 (EP 98307274)

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G06K-0015/00 A I F B 20060101 20070510 H EP

G06F-0003/12 A I L B 20060101 20090715 H EP

G03G-0015/00 A I L B 20060101 20090715 H EP

ABSTRACT WORD COUNT: 116

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
----------------	----------	--------	------------

CLAIMS A	(English)	200730	896
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SPEC A	(English)	200730	7934
--------	-----------	--------	------

Total word count - document A	8832
-------------------------------	------

Total word count - document B 0
Total word count - documents A + B 8832

...ABSTRACT be printed on is set when the user designates a stapling position, positions at which stapling is possible are decided in dependence upon the set ~~paper size~~ and these positions are displayed as candidates for selection. The user selects a desired position from among the candidates. The selected position is displayed together with an image of the paper shape indicating the page layout of the paper, the orientation of ~~print data~~ and stapling orientation. Lastly, the candidates for selection are displayed on the image. The stapling position thus set is sent to the printer when printing...

NOTE:

...SPECIFICATION in the manner shown in the bitmap display window 1004 of Fig. 10.

Thus, designatable stapling positions are displayed in conformity with the designation of ~~paper size~~. At the same time, an image representing the format of a page that reflects the setting of five items can be displayed in the bitmap display window 1004 in dependence upon the five items, namely the designation of ~~paper size~~, the designation of page layout, the designation of stapling orientation, the designation of ~~print data~~ orientation and the designation of stapling position.

In a case where a designation such as that of ~~paper size~~ has not been made, the processing of Fig. 4 is executed and the image of Fig. 10 displayed using a ~~paper size~~ and paper orientation deemed appropriate beforehand.

<Examples of displays in display window>

Figs. 13A - 13D and Figs. 14A - 14H are examples of images displayed in ...a direction parallel to the short edges, a long edge is the edge at which stapling is possible. Consequently, even if the orientation of the ~~print data~~ is changed, the stapling positions do not change with respect to the shape of the paper. In this example, it is assumed that only ~~paper~~ of legal size cannot be stapled at a position midway along an edge.

Figs. 14G and 14H illustrates cases where (3) has been designated at the stapling position for legal-size paper.

Fig. 14G... Size: legal; ~~Print data~~ orientation:

portrait (stapling position: (3))

Fig. 14H... Size: legal; ~~Print data~~ orientation: landscape

(stapling position: (3))

These cases differ from the other cases. Specifically, since the staple is oriented along the short edge, the mark also is displayed in an...

...Figs. 13A, 13B are examples of displays in a case where a page layout has been set so as to print two pages on one ~~sheet~~ of paper.

~~Paper size~~ is set at A4 and the stapling orientation is set as left or top.

Fig. 13A... Page layout: two-page printing; ~~Print data~~ orientation: landscape; stapling position: (1)

Fig. 13B... Page layout: two-page printing; ~~Print data~~ orientation: portrait; stapling position: (3)

In the case of two-page printing, each page of ordinary size is reduced

to about 70% of ordinary size and the two reduced...

...the marks indicating the stapling positions also are displayed at two locations in accordance with the positions of the staples.

By way of example, consider paper of size A4 and the portrait orientation as the orientation of the print data. If the page layout is made one-page printing, then two-page printing and then four-page printing in this case, then the images displayed will as shown in...

...positions capable of being designated, therefore, are displayed in an unselected state.

Thus, stapling positions capable of being designated in dependence upon the designation of paper size are displayed and, if a stapling position has been designated, so is the designated stapling position. At the same time, an image representing the format...

...that reflects the setting of five items can be displayed in the display window 1004 in dependence upon the five items, namely the designation of paper size, the designation of page layout, the designation of stapling orientation, the designation of print data orientation and the designation of stapling position.

In a case where a designation such as that of paper size has not been made, the processing of Fig. 20A is executed and the image of Fig. 10 displayed using a paper size and paper orientation deemed appropriate beforehand.

Fig. 20B is a processing procedure for a case where an input has been made on the screen of...

13/3,K/4 (Item 4 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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01566708

PRINTING CARTRIDGE WITH TWO DIMENSIONAL CODE IDENTIFICATION
 DRUCKPATRONE MIT ZWEIDIMENSIONALER CODE-IDENTIFIKATION
 CARTOUCHE D'IMPRESSION A IDENTIFICATION DE CODE A DEUX DIMENSIONS
 PATENT ASSIGNEE:

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INVENTOR:

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PATENT (CC, No, Kind, Date): EP 1425180 A2 040609 (Basic)
 EP 1425180 B1 080702
 WO 2003013869 030220

APPLICATION (CC, No, Date): EP 2002744927 020709; WO 2002AU915 020709

PRIORITY (CC, No, Date): US 922159 010806

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
 IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): B41J-002/175

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

B41J-0002/175 A I F B 20060101 20040317 H EP

B41J-0011/00 A I L B 20060101 20060227 H EP

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200827	482
CLAIMS B	(German)	200827	430
CLAIMS B	(French)	200827	575
SPEC B	(English)	200827	122143
Total word count - document A			0
Total word count - document B			123630
Total word count - documents A + B			123630

...SPECIFICATION suitable replacement for traditional camera and photographic film techniques. The traditional film and photographic techniques rely upon a film roll having a number of pre-formatted negatives which are drawn past a lensing system and onto which is imaged a negative of a image taken by the lensing system. Upon the...

...print media using the code sensed from the two dimensional code.

Preferably, the two dimensional code is protected with an encryption algorithm.

Ideally, the two dimensional code incorporates error-correcting code.

Conveniently, the error-correcting code is in the form of Reed-Solomon code.

The two dimensional code preferably enables access characterization;

<FIGREF IDREF=F0125>Fig. 206</FIGREF> is an exploded perspective, in section, of the print head ink supply mechanism;

<FIGREF IDREF=F0126>Fig. 207</FIGREF> is a bottom perspective of the ink head supply unit;

<FIGREF IDREF=F0127>Fig. 208...

...of the ACP chip 31 to reduce incremental design cost. Alternatively, a separate 3D Artcam ACP can be designed. This option will reduce the manufacturing cost of a mainstream single sensor Artcam.

Print roll authentication chip 53

A small chip 53 is included in each print roll 42. This chip replaced the functions of the bar code, optical sensor and wheel, and ISO/ASA sensor on other forms of camera film units such as Advanced Photo Systems film cartridges.

The authentication chip...

...The Artcam unit 1 can utilize any color print technology which is small enough, low enough power, fast enough, high enough quality, and low enough cost, and is compatible with the print roll. Relevant printheads will be specifically discussed hereinafter.

The specifications of the ink jet head are:

Optional ink pressure Controller (not shown)

The function of...

...can be inserted. The APC 31 detects the pressing of the button, and reverses the Artcard reader motor 37 to eject the card.

Card status indicator 66

A card status indicator 66 is provided to signal the user as to the status of the Artcard reading process. This can be a standard bi-color (red/green...

...Artcam can be carefully managed with all unit being turned off when not in use.

The most significant current drains are the ACP 31, the area image sensors 2,4, the printer 44 various motors, the flash unit 56, and the optional color display 5 dealing with each part separately:

1...in input pixels in relation to output pixels. An example of this is rotation. If an image is rotated 90 degrees, and we process the output pixels horizontally, there is a complete loss of cache coherence. On the other hand, if we process the output image one cache line's width...

13/3,K/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01513742

Image forming apparatus for efficient prefeed of copy sheets
Bilderzeugungsgerat mit leistungsfahigem Vorschub von Kopierblattern
Appareil de formation d'image pour l'alimentation efficace des feuilles de tirage

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542366), 3-30-2 Shimomaruko, Ohta-ku, Tokyo, (JP), (Proprietor designated states: all)

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Sato, Kaoru, c/o Canon K. K.,3-30-2, Shimomaruko,Ohta-ku, Tokyo, (JP)

Serizawa, Yoji, c/o Canon K. K.,3-30-2, Shimomaruko,Ohta-ku, Tokyo, (JP)

Takahashi, Atsuya, c/o Canon K. K.,3-30-2, Shimomaruko,Ohta-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

TBK-Patent (102381), Bavariaring 4-6, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1265110 A1 021211 (Basic)

EP 1265110 B1 081231

APPLICATION (CC, No, Date): EP 2002015090 990928;

PRIORITY (CC, No, Date): JP 98275930 980929; JP 99267051 990921; JP 99267057 990921

DESIGNATED STATES: DE; FR; GB; IT

RELATED PARENT NUMBER(S) - PN (AN):

EP 997787 (EP 99119277)

INTERNATIONAL PATENT CLASS (V7): G03G-015/00

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G03G-0015/00 A I F B 20060101 20020823 H EP

ABSTRACT WORD COUNT: 141

NOTE:

Figure number on first page: 29

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200250	421
CLAIMS B	(English)	200901	306
CLAIMS B	(German)	200901	260
CLAIMS B	(French)	200901	356
SPEC A	(English)	200250	12951
SPEC B	(English)	200901	12127
Total word count - document A			13374
Total word count - document B			13049
Total word count - documents A + B			26423

...SPECIFICATION for a job consisting of images of 10 pages. The engine control unit 301 stores the information of the source of sheet feeding, destination of ~~sheet~~ discharge, ~~sheet size~~ etc., designated for each ID, in an area assigned for each ID in the image print information memory unit 311, and also stores the order...

...Fig. 16 is a view showing the conceptual structure of the print reservation table, in which the reserved ID codes and the pointers to the print information memory areas for the respective ID's, arranged in the order of printing. In the image print information memory unit 311, there is provided an area for collectively storing, for each ID, the above-mentioned print information such as the source of sheet feeding, destination of ~~sheet~~ discharge, ~~sheet size~~ etc. The pointer to the print information memory area includes a print reservation pointer and a print execution pointer, and designates the print information memory...

...SPECIFICATION 16</FIGREF> is a view showing the conceptual structure of the print reservation table, in which the reserved ID codes and the pointers to the print information memory areas for the respective ID's, arranged in the order of printing. In the image print information memory unit 311, there is provided an area for collectively storing, for each ID, the above-mentioned print information such as the source of sheet feeding, destination of ~~sheet~~ discharge, ~~sheet size~~ etc. The pointer to the print information memory area includes a print reservation pointer and a print execution pointer, and designates the print information memory...

^
13/3,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01157806

Event-based printing

Ereignis basiertes Drucken

Impression basee sur des evenements

PATENT ASSIGNEE:

Adobe Systems Incorporated, (1120815), 345 Park Avenue, San Jose,
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INVENTOR:

Roth, Tim, 4610 246th Place SE, Issaquah Washington 98029, (US)

Holland, Paul, 27168 S.E, 25th Place, Issaquah Washington 98029, (US)
LEGAL REPRESENTATIVE:

Wombwell, Francis (46022), Potts, Kerr & Co. 15, Hamilton Square,
Birkenhead Merseyside CH41 6BR, (GB)

PATENT (CC, No, Kind, Date): EP 1008926 A2 000614 (Basic)
EP 1008926 A3 020109

APPLICATION (CC, No, Date): EP 99308851 991105;

PRIORITY (CC, No, Date): US 210144 981211

DESIGNATED STATES: DE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-003/12

ABSTRACT WORD COUNT: 100

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200024	1522
SPEC A	(English)	200024	6440
Total word count - document A			7962
Total word count - document B			0
Total word count - documents A + B			7962

...SPECIFICATION configure print parameters to control printing, such as by determining a coordinate mapping between the client application's logical page and the destination's physical ~~paper~~ or determining ~~dimensions~~ defining a border to be added to a page. For example, as described below, in a print service component 145 for tile printing, the print...

...of the supplied print data to fit within a collection of physical pages, or tiles. The active print service components 145 prepare any necessary data ~~structures~~ to receive ~~print data~~ from the client application 125. The client application 125 accesses and modifies these data structures through print manager routines in response to the print event...

13/3,K/8 (Item 8 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01143172

Image forming apparatus for managing copy sheets individually
Bildzeugungsgerat zum Verwalten einzelner Kopierblatter
Appareil de formation d'image pour gerer des feuilles de tirage
individuelles

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
Tokyo, (JP), (Proprietor designated states: all)

INVENTOR:

Tachibana, Tatsuto, Canon Kabushiki Kaisha,30-2, Shimomaruko 3-chome,
Ohta-ku,Tokyo, (JP)

Sato, Kaoru, Canon Kabushiki Kaisha,30-2, Shimomaruko 3-chome,
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Serizawa, Yoji, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,
Ohta-ku, Tokyo, (JP)
Takahashi, Atsuya, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,
Ohta-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

TBK-Patent (102381), Bavariaring 4-6, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 997787 A2 000503 (Basic)

EP 997787 A3 000913

EP 997787 B1 090513

APPLICATION (CC, No, Date): EP 99119277 990928;

PRIORITY (CC, No, Date): JP 98275930 980929; JP 99267051 990921; JP

99267057 990921

DESIGNATED STATES: DE; FR; GB; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

RELATED DIVISIONAL NUMBER(S) - PN (AN):

EP 1265110 (EP 2002015090)

EP 2019342 (EP 2008163519)

EP 2051144 (EP 2008173083)

INTERNATIONAL PATENT CLASS (V7): G03G-015/00

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G03G-0015/00 A I F B 20060101 20000210 H EP

ABSTRACT WORD COUNT: 151

NOTE:

Figure number on first page: 2

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200018	1457
CLAIMS B	(English)	200920	730
CLAIMS B	(German)	200920	651
CLAIMS B	(French)	200920	825
SPEC A	(English)	200018	12025
SPEC B	(English)	200920	12247
Total word count - document A			13484
Total word count - document B			14453
Total word count - documents A + B			27937

...SPECIFICATION for a job consisting of images of 10 pages. The engine control unit 301 stores the information of the source of sheet feeding, destination of ~~sheet~~ discharge, ~~sheet size~~ etc., designated for each ID, in an area assigned for each ID in the image print information memory unit 311, and also stores the order...

...Fig. 16 is a view showing the conceptual structure of the print reservation table, in which the reserved ID codes and the pointers to the print information memory areas for the respective ID's, arranged in the order of printing. In the image print information memory unit 311, there is provided an area for collectively storing, for each ID, the above-mentioned print information such as the source of sheet feeding, destination of ~~sheet~~ discharge, ~~sheet size~~ etc. The pointer to the print information memory area includes a print reservation pointer and a print execution pointer, and designates the print information memory...

...SPECIFICATION 16</FIGREF> is a view showing the conceptual structure of the print reservation table, in which the reserved ID codes and the pointers to the print information memory areas for the respective ID's, arranged in the order of printing. In the image print information memory unit 311, there is provided an area for collectively storing, for each ID, the above-mentioned print information such as the source of sheet feeding, destination of sheet discharge, sheet size etc. The pointer to the print information memory area includes a print reservation pointer and a print execution pointer, and designates the print information memory...

13/3,K/9 (Item 9 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01073833

Dynamic stapling
Dynamisches Klammern
Agrafage dynamique

PATENT ASSIGNEE:

Toshiba America Information Systems, Inc., (1514203), 9740 Irvine
Boulevard, Irvine, California 92618, (US), (Proprietor designated
states: all)

INVENTOR:

Bigi, Michael J., c/c Toshiba America Information Systems, Inc., 9740
Irvine Blvd., Irvine, CA 92618, (US)

LEGAL REPRESENTATIVE:

Kramer - Barske - Schmidtchen (102192), European Patent Attorneys Patenta
Radeckestrasse 43, 81245 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 945779 A2 990929 (Basic)
EP 945779 A3 000906
EP 945779 B1 040324

APPLICATION (CC, No, Date): EP 98114230 980729;

PRIORITY (CC, No, Date): US 49298 980327

DESIGNATED STATES: BE; DE; DK; FI; FR; GB; LU; NL; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-003/12

ABSTRACT WORD COUNT: 135

NOTE:

Figure number on first page: 7

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199939	1824
CLAIMS B	(English)	200413	1826
CLAIMS B	(German)	200413	1626
CLAIMS B	(French)	200413	1894
SPEC A	(English)	199939	5881
SPEC B	(English)	200413	5981
Total word count - document A			7706
Total word count - document B			11327
Total word count - documents A + B			19033

...SPECIFICATION printers the interpreter may also translate the commands

into a shorthand or "tokenized" form which the formatter can process more efficiently. The interpreter passes the structured print data to the formatter.

The formatting function of the controller, called the formatter, takes the structured print data and arranges the page. The first priority is normally to set the paper size, and then the margins, until these are set the line length is unknown. When the line length is set the formatter can arrange the text...

...SPECIFICATION printers the interpreter may also translate the commands into a shorthand or "tokenized" form which the formatter can process more efficiently. The interpreter passes the structured print data to the formatter.

The formatting function of the controller, called the formatter, takes the structured print data and arranges the page. The first priority is normally to set the paper size, and then the margins, until these are set the line length is unknown. When the line length is set the formatter can arrange the text...

13/3,K/10 (Item 10 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00999270

Printing control apparatus and method
Druckersteuerungssystem und -verfahren
Dispositif et methode de controle d'impression
PATENT ASSIGNEE:

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LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. 16 High
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PATENT (CC, No, Kind, Date): EP 902391 A2 990317 (Basic)
EP 902391 A3 000322
EP 902391 B1 070418

APPLICATION (CC, No, Date): EP 98307274 980909;

PRIORITY (CC, No, Date): JP 97247213 970911

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06K-015/00; G06F-003/12; G03G-015/00

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G06K-0015/00 A I F B 20060101 19990109 H EP

G06F-0003/12 A I L B 20060101 20000201 H EP

G03G-0015/00 A I L B 20060101 20000201 H EP

ABSTRACT WORD COUNT: 116

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199911	916
CLAIMS B	(English)	200716	1348
CLAIMS B	(German)	200716	1191
CLAIMS B	(French)	200716	1582
SPEC A	(English)	199911	7932
SPEC B	(English)	200716	8032
Total word count - document A			8850
Total word count - document B			12153
Total word count - documents A + B			21003

...ABSTRACT be printed on is set when the user designates a stapling position, positions at which stapling is possible are decided in dependence upon the set `paper size` and these positions are displayed as candidates for selection. The user selects a desired position from among the candidates. The selected position is displayed together with an image of the paper shape indicating the page layout of the paper, the orientation of `print data` and stapling orientation. Lastly, the candidates for selection are displayed on the image. The stapling position thus set is sent to the printer when printing...

NOTE:

...SPECIFICATION in the manner shown in the bitmap display window 1004 of Fig. 10.

Thus, designatable stapling positions are displayed in conformity with the designation of `paper size`. At the same time, an image representing the format of a page that reflects the setting of five items can be displayed in the bitmap display window 1004 in dependence upon the five items, namely the designation of `paper size`, the designation of page layout, the designation of stapling orientation, the designation of `print data` orientation and the designation of stapling position.

In a case where a designation such as that of `paper size` has not been made, the processing of Fig. 4 is executed and the image of Fig. 10 displayed using a `paper size` and paper orientation deemed appropriate beforehand.

<Examples of displays in display window>

Figs. 13A - 13D and Figs. 14A - 14H are examples of images...

...a direction parallel to the short edges, a long edge is the edge at which stapling is possible. Consequently, even if the orientation of the `print data` is changed, the stapling positions do not change with respect to the shape of the paper. In this example, it is assumed that only `paper` of legal size cannot be stapled at a position midway along an edge.

Figs. 14G and 14H illustrates cases where (3) has been designated at the stapling position for legal-size paper.

Fig. 14G... Size: legal; Print data orientation:

portrait (stapling position: (3))

Fig. 14H... Size: legal; Print data orientation:

landscape (stapling position: (3))

These cases differ from the other cases. Specifically, since the staple is oriented along the short edge, the mark also is displayed in an...

...Figs. 13A, 13B are examples of displays in a case where a page layout has been set so as to print two pages on one sheet of paper. Paper size is set at A4 and the stapling orientation is set as left or top.

Fig. 13A... Page layout: two-page printing; Print

data orientation: landscape; stapling

position: (1)

Fig. 13B... Page layout: two-page printing; Print

data orientation: portrait; stapling

position: (3)

In the case of two-page printing, each page of ordinary size is reduced to about 70% of ordinary size and the two reduced...

...the marks indicating the stapling positions also are displayed at two locations in accordance with the positions of the staples.

By way of example, consider paper of size A4 and the portrait orientation as the orientation of the print data. If the page layout is made one-page printing, then two-page printing and then four-page printing in this case, then the images displayed will as shown in...

...positions capable of being designated, therefore, are displayed in an unselected state.

Thus, stapling positions capable of being designated in dependence upon the designation of paper size are displayed and, if a stapling position has been designated, so is the designated stapling position. At the same time, an image representing the format...

...that reflects the setting of five items can be displayed in the display window 1004 in dependence upon the five items, namely the designation of paper size, the designation of page layout, the designation of stapling orientation, the designation of print data orientation and the designation of stapling position.

In a case where a designation such as that of paper size has not been made, the processing of Fig. 20A is executed and the image of Fig. 10 displayed using a paper size and paper orientation deemed appropriate beforehand.

Fig. 20B is a processing procedure for a case where an input has been made on the screen of...

...SPECIFICATION in the manner shown in the bitmap display window 1004 of Fig. 10.

Thus, designatable stapling positions are displayed in conformity with the designation of paper size. At the same time, an image representing the format of a page that reflects the setting of five items can be displayed in the bitmap display window 1004 in dependence upon the five items, namely the designation of paper size, the designation of page layout, the designation of stapling orientation, the designation of print data orientation and

the designation of stapling position.

In a case where a designation such as that of paper size has not been made, the processing of Fig. 4 is executed and the image of Fig. 10 displayed using a paper size and paper orientation deemed appropriate beforehand.

<Examples of displays in display window>

Figs. 13A - 13D and Figs. 14A - 14H are examples of images displayed in ...

...a direction parallel to the short edges, a long edge is the edge at which stapling is possible. Consequently, even if the orientation of the print data is changed, the stapling positions do not change with respect to the shape of the paper. In this example, it is assumed that only paper of legal size cannot be stapled at a position midway along an edge.

Figs. 14G and 14H illustrates cases where (3) has been designated at the stapling position for legal-size paper.

Fig. 14G Size: legal; Print data orientation: portrait (stapling position: (3))

Fig. 14H Size: legal; Print data orientation: landscape (stapling position: (3))

These cases differ from the other cases. Specifically, since the staple is oriented along the short edge, the mark also is displayed in an...

...Figs. 13A, 13B are examples of displays in a case where a page layout has been set so as to print two pages on one sheet of paper.

Paper size is set at A4 and the stapling orientation is set as left or top.

Fig. 13A Page layout: two-page printing; Print data orientation: landscape; stapling position: (1)

Fig. 13B Page layout: two-page printing; Print data orientation: portrait; stapling position: (3)

In the case of two-page printing, each page of ordinary size is reduced to about 70% of ordinary size and the two reduced...

...the marks indicating the stapling positions also are displayed at two locations in accordance with the positions of the staples.

By way of example, consider paper of size A4 and the portrait orientation as the orientation of the print data. If the page layout is made one-page printing, then two-page printing and then four-page printing in this case, then the images displayed will as shown in...

...positions capable of being designated, therefore, are displayed in an unselected state.

Thus, stapling positions capable of being designated in dependence upon the designation of paper size are displayed and, if a stapling position has been designated, so is the designated stapling position. At the same time, an image representing the format...

...that reflects the setting of five items can be displayed in the display window 1004 in dependence upon the five items, namely the designation of paper size, the designation of page layout, the designation of stapling orientation, the designation of print data orientation and the designation of stapling position.

In a case where a designation such as that of ~~paper size~~ has not been made, the processing of Fig. 20A is executed and the image of Fig. 10 displayed using a ~~paper size~~ and paper orientation deemed appropriate beforehand.

Fig. 20B is a processing procedure for a case where an input has been made on the screen of...

13/3,K/11 (Item 11 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00989698
Print control apparatus and method for page layout preparation
Druckersteuerungssystem und -verfahren zur Vorbereitung eines Seitenlayouts
Dispositif et methode de controle d'impression pour preparer une mise en
page

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PATENT (CC, No, Kind, Date): EP 895183 A2 990203 (Basic)
EP 895183 A3 000531
EP 895183 B1 080813

APPLICATION (CC, No, Date): EP 98114213 980729;

PRIORITY (CC, No, Date): JP 97218318 970730; JP 98195715 980710

DESIGNATED STATES: DE; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06K-015/00; G06F-003/12

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G06K-0015/00 A I F B 20060101 19981117 H EP

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ABSTRACT WORD COUNT: 170

NOTE:

Figure number on first page: 3

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199905	1712
CLAIMS B	(English)	200833	1226
CLAIMS B	(German)	200833	1084
CLAIMS B	(French)	200833	1521
SPEC A	(English)	199905	8331
SPEC B	(English)	200833	7550

Total word count - document A 10045
Total word count - document B 11381
Total word count - documents A + B 21426

...SPECIFICATION described above, according to the second embodiment, the printer control system can calculate the size of the printable area, excluding the margins, of an output ~~sheet~~, divide the printable ~~area~~ into N areas for N-up printing, employ the N areas and data to be printed to calculate the maximum enlargement/reduction ratio for printing the data without changing the length/breadth ratio, enlarge/reduce the ~~print data~~ at the length/breadth ratio, and calculate the ~~layout~~ for the standard N-up printing while taking the margins into account. Therefore, the margin can be set by employing a combined margin setting method...

...SPECIFICATION described above, according to the second embodiment, the printer control system can calculate the size of the printable area, excluding the margins, of an output ~~sheet~~, divide the printable ~~area~~ into N areas for N-up printing, employ the N areas and data to be printed to calculate the maximum enlargement/reduction ratio for printing the data without changing the length/breadth ratio, enlarge/reduce the ~~print data~~ at the length/breadth ratio, and calculate the ~~layout~~ for the standard N-up printing while taking the margins into account. Therefore, the margin can be set by employing a combined margin setting method...

13/3,K/12 (Item 12 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00989697

Print control apparatus and method for page layout preparation
Druckersteuerungssysteme und -verfahren zur Vorbereitung eines
Seitenlayouts

Dispositif et methode de controle d'impression pour preparer une mise en
page

PATENT ASSIGNEE:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 895182 A2 990203 (Basic)

EP 895182 A3 001018

EP 895182 B1 080806

APPLICATION (CC, No, Date): EP 98114211 980729;

PRIORITY (CC, No, Date): JP 97218320 970730; JP 97218321 970730; JP

98195714 980710

DESIGNATED STATES: DE; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06K-015/00; G06F-003/12; H04N-001/387

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G06K-0015/00 A I F B 20060101 19981117 H EP

G06F-0003/12 A I L B 20060101 20000407 H EP

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ABSTRACT WORD COUNT: 136

NOTE:

Figure number on first page: 8

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199905	2348
CLAIMS B	(English)	200832	898
CLAIMS B	(German)	200832	795
CLAIMS B	(French)	200832	1019
SPEC A	(English)	199905	14285
SPEC B	(English)	200832	14812
Total word count - document A			16636
Total word count - document B			17524
Total word count - documents A + B			34160

...SPECIFICATION in that it is applicable to a system capable of temporarily storing, in an upper device such as a computer, data of an intermediate code ~~format~~ different from the ~~print data~~, and effecting the printing by providing a printing device such as printer with print data prepared according to the temporarily stored data.

The present invention is further featured in that the memory means is adapted to temporarily store an effective print area of the input ~~sheet~~, a ~~size~~ and an effective print area of the output sheet, an offset value and set enlargement/reduction mode as intermediate codes.

The present invention is further...to be executed in a pre-processing or a post-processing shown in Fig. 12. Thereafter the despooler 304 executes conversion of the intermediate data ~~format~~ into the GDI function ~~format~~ for generating the ~~print data~~ as explained in the foregoing.

Fig. 13 is a flow chart showing the process flow for the enlarged/reduced printing. At first the despooler 305 reads the effective print area of the input ~~sheet~~, the ~~size~~ of the output ~~sheet~~, the effective print ~~area~~ of the output sheet, the offset value and the set enlargement/reduction mode (step S1301). This process is achieved by reading the data required for...

...of the print data based on such setting, effecting the centering in an appropriate print position based on the effective print area of the input ~~sheet~~, the ~~size~~ and effective print area of the output sheet, the offset values and the set enlargement/reduction mode, and, in case printing plural logic pages in a physical page, positioning the plural logic pages in a print position symmetrical in the vertical and horizontal directions, whereby a proper output ~~format~~ can be obtained by the centering of the ~~print data~~ in the

appropriate position in the enlarging/reducing function, and, particularly in the two-side printing, prints can be obtained in a same position on both sides of the...content.

Also according to the present invention, as the memory means of the print control apparatus temporarily stores the effective print area of the input sheet, the size and effective print area of the output sheet, the offset values and the set enlargement/reduction mode in the form of intermediate codes, there can be provided an effect, in case of temporarily storing the data of an intermediate code format different from that of the print data and effecting the printing operation by transmitting the print data prepared from the stored data to the printing device, of providing the enlarging/reducing function...

...as the print control apparatus comprises arrangement means for effecting centering to the appropriate print position based on the effective print area of the input sheet, the size and effective print area of the output sheet, the offset values and the set enlargement/reduction mode, whereby the print data can be centered to an appropriate position in the enlarging/reducing function to obtain a proper output format, and, particularly in a printing device capable of two-side printing, the printing can...

...SPECIFICATION in a preprocessing or a post-processing shown in <FIGREF IDREF=F0012>Fig. 12</FIGREF>. Thereafter the intermediate data format into the GDI function format for generating the print data as explained in the foregoing.

<FIGREF IDREF=F0013>Fig. 13</FIGREF> is a flow chart showing the process flow for the enlarged/reduced printing. At first the despooler 305 reads the effective print area of the input sheet, the size of the output sheet, the effective print area of the output sheet, the offset value and the set enlargement/reduction mode (step S1301). This process is achieved by reading the data required for ...

...of the print data based on such setting, effecting the centering in an appropriate print position based on the effective print area of the input sheet, the size and effective print area of the output sheet, the offset values and the set enlargement/reduction mode, and, in case printing plural logic pages in a physical page, positioning the plural logic pages in a print position symmetrical in the vertical and horizontal directions, whereby a proper output format can be obtained by the centering of the print data in the appropriate position in the enlarging/reducing function, and, particularly in the two-side printing, prints can be obtained in a same position on both sides of the...

...content.

Also according to the present invention, as the memory means of the print control apparatus temporarily stores the effective print area of the input sheet, the size and effective print area of the output sheet, the offset values and the set enlargement/reduction mode in the form of intermediate codes, there can be provided an effect, in case of temporarily storing the data of an intermediate code format different from that of the print data and effecting the printing operation by transmitting the print data prepared from the

stored data to the printing device, of providing the enlarging/reducing function...

...as the print control apparatus comprises arrangement means for effecting centering to the appropriate print position based on the effective print area of the input sheet, the size and effective print area of the output sheet, the offset values and the set enlargement/reduction mode, whereby the print data can be centered to an appropriate position in the enlarging/reducing function to obtain a proper output format, and, particularly in a printing device capable of two-side printing, the printing can...

...CLAIMS device such as a printer.

9. An apparatus according to claim 8, further comprising:
storage means for temporarily storing the data in an intermediate code format different from that of the print data; and
preparation means for preparing the print data based on said temporarily stored data.
10. A print control method for executing layout of a print sheet, comprising:
an area determination step of dividing a physical page by N (N being a natural number) thereby determining a print area corresponding to a logic page;
an...

...said determined print area is arranged with an enlargement or a reduction in said print area, and outputting the processed data in said drawing data format to said drawing means; and
a print data generation step of converting said received print information into print data consisting of control commands, and outputting said print data to an external device.

24. A print control apparatus for controlling printing, comprising:
memory means for storing the effective print area of an input sheet, the size and effective print area of an output sheet, offset values and a set enlargement/reduction mode;
discrimination means for discriminating said set enlargement/reduction mode...

...featured in that it is applicable to a system in which an upper device such as a computer temporarily stores data of an intermediate code format different from that of print data, and
printing is executed by transmission of the print data prepared from said temporarily stored data to a printing device such as a printer.

26. An apparatus according to claim 24, wherein said memory means is adapted to store the effective print area of said input sheet, the size and effective print area of said output sheet, the offset values and the set enlargement/reduction mode as intermediate codes.

27. An apparatus according to...

...featured in that it is applicable to a system in which an upper device such as a computer temporarily stores data of an intermediate code format different from that of print data, and
printing is executed by transmission of the print data prepared from said temporarily stored data to a printing device such as a printer.

33. A method according to claim 31, wherein said memory step is adapted

to store the effective print area of said input ~~sheet~~, the
~~size~~ and effective print area of said output sheet, the offset
values and the set enlargement/reduction mode as intermediate codes.
34. A method according to...

13/3,K/13 (Item 13 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00975433

Print data generation system and corresponding method for use with a
printing system

Druckdaten-Erzeugungssystem und entsprechendes Verfahren zur Verwendung in
einem Druckersystem

Systeme de generation de donnees d'impression et methode correspondant pour
utilisation avec un systeme d'imprimante

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PATENT (CC, No, Kind, Date): EP 884672 A2 981216 (Basic)
EP 884672 A3 010411
EP 884672 B1 050525

APPLICATION (CC, No, Date): EP 98304515 980608;

PRIORITY (CC, No, Date): JP 97151411 970609

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-003/12

ABSTRACT WORD COUNT: 110

NOTE:

Figure number on first page: 1

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Available Text	Language	Update	Word Count
CLAIMS A	(English)	199851	1526
CLAIMS B	(English)	200521	1242
CLAIMS B	(German)	200521	1060
CLAIMS B	(French)	200521	1430
SPEC A	(English)	199851	9017
SPEC B	(English)	200521	9272
Total word count - document A			10545
Total word count - document B			13004
Total word count - documents A + B			23549

...SPECIFICATION system 21 and the printer 31 will now be discussed with
reference to Figs. 5A and 5B.

Fig. 5A is a schematic representation illustrating the ~~structure~~
of data D1 transmitted from the ~~print data~~ generation system
21 to the printer 31. The data D1 has seven fields of request type,

acceptance information, host address, command system, the number of print pages, paper size, and color information. The request type indicates that the data D1 is a temporary print request, an actual print request, or a cancel request.

For...

...total number of pages to be printed is set in the number of print pages field, the print recording medium size is set in the paper size field, and the print type (color or monochrome print) is set in the color information field.

The structure of the data D1 transferred from the print data generation system 21 to the printer 31 is not limited to that shown in Fig. 5A. For example, to issue an actual print request, the...

...SPECIFICATION system 21 and the printer 31 will now be discussed with reference to Figs. 5A and 5B.

Fig. 5A is a schematic representation illustrating the structure of data D1 transmitted from the print data generation system 21 to the printer 31. The data D1 has seven fields of request type, acceptance information, host address, command system, the number of print pages, paper size, and color information. The request type indicates that the data D1 is a temporary print request, an actual print request, or a cancel request.

For...

...total number of pages to be printed is set in the number of print pages field, the print recording medium size is set in the paper size field, and the print type (color or monochrome print) is set in the color information field.

The structure of the data D1 transferred from the print data generation system 21 to the printer 31 is not limited to that shown in Fig. 5A. For example, to issue an actual print request, the...

13/3,K/14 (Item 14 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00939760

Image forming apparatus and method of forming images

Bilderzeugungsgerat und -Verfahren

Dispositif et procede de formation d'images

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PATENT (CC, No, Kind, Date): EP 854632 A2 980722 (Basic)
EP 854632 A3 990616
EP 854632 B1 020918

APPLICATION (CC, No, Date): EP 97122959 971229;

PRIORITY (CC, No, Date): JP 977879 970120
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS (V7): H04N-001/32; H04N-001/333
ABSTRACT WORD COUNT: 126
NOTE:

Figure number on first page: 4

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FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199830	1197
CLAIMS B	(English)	200238	1073
CLAIMS B	(German)	200238	848
CLAIMS B	(French)	200238	1199
SPEC A	(English)	199830	8646
SPEC B	(English)	200238	8033
Total word count - document A			9845
Total word count - document B			11153
Total word count - documents A + B			20998

...SPECIFICATION source (e.g., the large-capacity feeder), and the type of image data (e.g., compressed, B4 size). The fifth page-data item represents the ~~sheet size~~ (e.g., B4 size), the sheet source (e.g., the large-capacity feeder), and the type of image data (e.g., compressed, B4 size).

FIG. 11 shows the ~~structure~~ of the conventional job file generated from the ~~print data~~ illustrated in FIG. 10, for a case of a double sided print mode. Stored in the job header of this job file are the number...

...SPECIFICATION source (e.g., the large-capacity feeder), and the type of image data (e.g., compressed, B4 size). The fifth page-data item represents the ~~sheet size~~ (e.g., B4 size), the sheet source (e.g., the large-capacity feeder), and the type of image data (e.g., compressed, B4 size).

FIG. 11 shows the ~~structure~~ of the conventional job file generated from the ~~print data~~ illustrated in FIG. 10, for a case of a double sided print mode. Stored in the job header of this job file are the number...

13/3,K/15 (Item 15 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00932275

Print control apparatus and print control method

Druckersteuerungsgerat und -verfahren

Dispositif et methode d'impression

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
Tokyo, (JP), (Proprietor designated states: all)

INVENTOR:

Okada, Kunio, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku,
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Sugaya, Akio, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku,

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Ohta-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

TBK-Patent (102381), Bavariaring 4-6, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 849701 A2 980624 (Basic)

EP 849701 A3 021106

EP 849701 B1 050420

APPLICATION (CC, No, Date): EP 97122396 971218;

PRIORITY (CC, No, Date): JP 96340837 961220; JP 9746630 970228

DESIGNATED STATES: DE; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06K-015/02

ABSTRACT WORD COUNT: 113

NOTE:

Figure number on first page: 6

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199826	1776
CLAIMS B	(English)	200516	1109
CLAIMS B	(German)	200516	958
CLAIMS B	(French)	200516	1215
SPEC A	(English)	199826	15958
SPEC B	(English)	200516	16012
Total word count - document A			17737
Total word count - document B			19294
Total word count - documents A + B			37031

...SPECIFICATION formats of page data and form data supplied from the host computer 400 shown in Fig. 4.

In Fig. 6, reference numeral 601 indicates the format of form data which is constituted of form print data surrounded by form registration start order 603 and form registration finish order 606. The page data has also the same structure as the form print data 605, and is a combination of character codes, print position designations, character size designations, calligraphic style designations and line segment designations.

Given as parameters of the form registration start order 602 are form sheet size designation 603 and form name 604, the former defining the size of a sheet on which form data is printed, and the latter defining the...

...SPECIFICATION formats of page data and form data supplied from the host computer 400 shown in Fig. 4.

In Fig. 6, reference numeral 601 indicates the format of form data which is constituted of form print data surrounded by form registration start order 603 and form registration finish order 606. The page data has also the same structure as the form print data 605, and is a combination of character codes, print position designations, character size designations, calligraphic style designations and line segment designations.

Given as parameters of the form registration start order 602 are form sheet size designation 603 and form name 604, the former defining the size of a sheet on which form data is printed, and the

latter defining the...

13/3,K/16 (Item 16 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00917667

Image forming apparatus
Bilderzeugungsgerat
Appareil de formation d'image

PATENT ASSIGNEE:

SHARP KABUSHIKI KAISHA, (260710), 22-22 Nagaike-cho, Abeno-ku
Osaka-shi,, Osaka-fu 545-0013, (JP), (Proprietor designated states:
all)

INVENTOR:

Kido, Eiichi, 556-204, Yanagimachi, Yamatokoriyama-shi, Nara, (JP)
Yui, Yuhi, 2-299, Fukigaoka, Nabari-shi, Mie, (JP)
Wakada, Shigeyuki, Raporu Nara, 763-1, Minosho-cho, Yamatokoriyama-shi,
Nara, (JP)
Ohgoshi, Toshihide, 362-3, Minaminagai-cho, Nara-shi, Nara, (JP)
Murakami, Satoshi, Mikasa-ryo, 492, Minosho-cho, Yamatokoriyama-shi, Nara
, (JP)
Kawakami, Takahiro, 3-8-19, Asukano-minami, Ikoma-shi, Nara, (JP)

LEGAL REPRESENTATIVE:

Muller, Frithjof E. (8661), Muller Hoffmann & Partner Patentanwalte
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PATENT (CC, No, Kind, Date): EP 837426 A2 980422 (Basic)
EP 837426 A3 021009
EP 837426 B1 050921

APPLICATION (CC, No, Date): EP 97112523 970722;

PRIORITY (CC, No, Date): JP 96272779 961016

DESIGNATED STATES: DE; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06K-015/12

ABSTRACT WORD COUNT: 11096

NOTE:

Figure number on first page: 13B

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200538	183
CLAIMS B	(German)	200538	152
CLAIMS B	(French)	200538	221
SPEC B	(English)	200538	8865

Total word count - document A 0

Total word count - document B 9421

Total word count - documents A + B 9421

...SPECIFICATION and replaces the image data for reproduction into
prescribed patterns.

Reference numeral 213 designates a PCU (process control unit) for
controlling image forming portion 102.

In the above configuration, the print data
(image information/image data to be reproduced) transmitted from the host
computer is received by the image forming apparatus (laser printer)

through centro-interface 200...

13/3,K/17 (Item 17 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2009 European Patent Office. All rts. reserv.

00914470

Method and apparatus for controlling output of a printer
Verfahren und Gerat um Ausgabe eines Druckers zu steuern
Methode et dispositif de commande de sortie d'une imprimante
PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542366), 3-30-2 Shimomaruko, Ohta-ku, Tokyo,
(JP), (Proprietor designated states: all)

INVENTOR:

Sato, Yukimasa, Canon Kabushiki Kaisha, 3-30-2, Shimomaruko,,
Ohta-ku, Tokyo, (JP)
Sugaya, Akio, Canon Kabushiki Kaisha, 3-30-2, Shimomaruko,, Ohta-ku, Tokyo
, (JP)

LEGAL REPRESENTATIVE:

TBK-Patent (102381), Bavariaring 4-6, 80336 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 834800 A1 980408 (Basic)
EP 834800 B1 080903

APPLICATION (CC, No, Date): EP 97117166 971002;

PRIORITY (CC, No, Date): JP 96264247 961004

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS (V7): G06F-003/12

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:
G06F-0003/12 A I F B 20060101 19980115 H EP

ABSTRACT WORD COUNT: 111

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199815	2111
CLAIMS B	(English)	200836	1026
CLAIMS B	(German)	200836	827
CLAIMS B	(French)	200836	1137
SPEC A	(English)	199815	14511
SPEC B	(English)	200836	12628
Total word count - document A			16625
Total word count - document B			15618
Total word count - documents A + B			32243

...SPECIFICATION the job management area 1104, and the initial state at the
job start of the printer (for example, information about the number of
copies and ~~sheet size~~ at the start of job) is also stored
there (12-2).

The ~~formatter~~ analyzing block 1101 analyzes subsequent
print data, and stores created output page intermediate image
information (page information) in the page buffer 1103 (12-3). After the
storing of the page information onto...

...SPECIFICATION the job management area 1104, and the initial state at the
job start of the printer (for example, information about the number of

copies and ~~sheet size~~ at the start of job) is also stored there (12-2).

The ~~formatter~~ analyzing block 1101 analyzes subsequent ~~print data~~, and stores created output page intermediate image information (page information) in the page buffer 1103 (12-3). After the storing of the page information onto...

13/3,K/18 (Item 18 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2009 European Patent Office. All rts. reserv.

00833940

System and method for using varied binarization processing to implement a printer driver architecture

System und Verfahren zur Implementierung einer Druckerarchitektur unter Verwendung veränderlicher Binarisierungsverarbeitung

Methode et systeme d'utilisation de traitement de binarisation variee pour realiser une architecture de commande d'imprimante

PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730008), 4-1, Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo, (JP), (Proprietor designated states: all)

INVENTOR:

Leclair, Gregory A., 183 Kona Place, San Jose, California 95119, (US)
Nakamura, Kazuo, c/o Seiko Epson Corp., 3-5 Owa 3-chome, Suwa-shi, Nagano, (JP)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 772118 A1 970507 (Basic)
EP 772118 B1 030205

APPLICATION (CC, No, Date): EP 96307983 961101;

PRIORITY (CC, No, Date): US 7183 951101; US 573019 951215

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): G06F-003/12

ABSTRACT WORD COUNT: 88

NOTE:

Figure number on first page: 4

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	581
CLAIMS B	(English)	200306	526
CLAIMS B	(German)	200306	458
CLAIMS B	(French)	200306	584
SPEC A	(English)	EPAB97	6433
SPEC B	(English)	200306	6750
Total word count - document A			7015
Total word count - document B			8318
Total word count - documents A + B			15333

...SPECIFICATION which includes basic text and graphic primitives. Page DDI 40 also has the ability to query driver settings from render driver 37, including print resolution, ~~paper size~~, color print selection, or printer options.

In the preferred embodiment, DIB data 42 and other data 44 are analyzed before being stored in journal file 33. The analysis process allows page driver 31 to perform preliminary print data processing and formatting before storing the print data in journal file 33. Specifically, page driver 31 develops a data base collection for each print object within a print image and arranges the print...

...SPECIFICATION which includes basic text and graphic primitives. Page DDI 40 also has the ability to query driver settings from render driver 37, including print resolution, paper size, color print-selection, or printer options.

In the preferred embodiment, DIB data 42 and other data 44 are analyzed before being stored in journal file 33. The analysis process allows page driver 31 to perform preliminary print data processing and formatting before storing the print data in journal file 33. Specifically, page driver 31 develops a data base collection for each print object within a print image and arranges the print...

13/3,K/19 (Item 19 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2009 European Patent Office. All rts. reserv.

00833899

System, output device, method, and computer-usable medium using a split printer driver to control a computer printer device
System, Ausgabegerat, Verfahren, und rechnerlesbares Medium, die zum Steuern eines Druckers einen gespaltenen Druckertreiber verwenden
Systeme, dispositif de sortie, methode et support lisible par ordinateur utilisant un driver d'imprimante divise pour commander un dispositif d'imprimante d'ordinateur

PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730008), 4-1, Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo, (JP), (Proprietor designated states: all)

INVENTOR:

Leclair, Gregory A., 183 Kona Place, San Jose, California 95119, (US)
Nakamura, Kazuo c/o Seiko Epsom Corporation, 3-5 Owa 3-chome, Suwa-shi, Nogano, (JP)

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Sturt, Clifford Mark et al (50502), Miller Sturt Kenyon 9 John Street, London WC1N 2ES, (GB)

PATENT (CC, No, Kind, Date): EP 772115 A1 970507 (Basic)
EP 772115 B1 030129

APPLICATION (CC, No, Date): EP 96307906 961031;

PRIORITY (CC, No, Date): US 550749 951031

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): G06F-003/12

ABSTRACT WORD COUNT: 80

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	576
CLAIMS B	(English)	200305	681

CLAIMS B	(German)	200305	637
CLAIMS B	(French)	200305	866
SPEC A	(English)	EPAB97	4800
SPEC B	(English)	200305	4840
Total word count - document A			5377
Total word count - document B			7024
Total word count - documents A + B			12401

...SPECIFICATION which includes basic text and graphic primitives. Page DDI 40 also has the ability to query driver settings from render driver 37, including print resolution, paper size, color print selection, or special printer options.

In the preferred embodiment, DIB data 42 and other data 44 are optimized before being stored in journal file 33, The optimization process allows page driver 31 to perform preliminary print data processing and formatting before storing the print data in journal file 33. Specifically, page driver 31 develops a data base collection of all object elements for each individual image of a print job...

...SPECIFICATION which includes basic text and graphic primitives. Page DDI 40 also has the ability to query driver settings from render driver 37, including print resolution, paper size, color print selection, or special printer options.

In the preferred embodiment, DIB data 42 and other data 44 are optimized before being stored in journal file 33, The optimization process allows page driver 31 to perform preliminary print data processing and formatting before storing the print data in journal file 33. Specifically, page driver 31 develops a data base collection of all object elements for each individual image of a print job...

13/3,K/20 (Item 20 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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00817074

Printing apparatus and initialization method thereof
 Druckgerät und Verfahren zu dessen Initialisierung
 Dispositif d'impression et methode d'initialisation associee
 PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730004), 4-1, Nishishinjuku 2-chome,
 Shinjuku-ku, Tokyo 163-0811, (JP), (Proprietor designated states: all)
 INVENTOR:

Takamizawa, Yuji, c/o Seiko Epson Corporation, 3-5, Owa 3-chome,
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 Teradaira, Mitsuaki, c/o Seiko Epson Corporation, 3-5, Owa 3-chome,
 Suwa-shi, Nagano-ken, 392, (JP)
 Aruga, Kazuhisa, c/o Seiko Epson Corporation, 3-5, Owa 3-chome, Suwa-shi,
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LEGAL REPRESENTATIVE:

Hoffmann, Eckart, Dipl.-Ing. (5571), Patentanwalt, Bahnhofstrasse 103,
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 PATENT (CC, No, Kind, Date): EP 759363 A2 970226 (Basic)
 EP 759363 A3 970730

EP 759363 B1 991208
APPLICATION (CC, No, Date): EP 96113336 960820;
PRIORITY (CC, No, Date): JP 95213839 950822
DESIGNATED STATES: DE; GB
INTERNATIONAL PATENT CLASS (V7): B41J-019/18; B41J-019/20; B41J-029/38
ABSTRACT WORD COUNT: 126

NOTE:

Figure number on first page: 4

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9949	1376
CLAIMS B	(German)	9949	1213
CLAIMS B	(French)	9949	1524
SPEC B	(English)	9949	4261
Total word count - document A			0
Total word count - document B			8374
Total word count - documents A + B			8374

...SPECIFICATION operation, the initialization operation terminates when print head unit 15 halts at the initial position predetermined relative to the reference position, e.g., the leftmost position 38 in the embodiment. Subsequently, the input of print data from personal computer 19 initiates a printing operation.

Assume print head unit 15 is located in receipt paper print area 35 before initialization and there are no paper troubles in this area, but a paper jam has occurred by journal paper 4 protruding beyond paper-holding leaf spring 18 into the moving path of print head 3...

13/3,K/21 (Item 21 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2009 European Patent Office. All rts. reserv.

00767819

Information reproducer and information creating unit
Vorrichtung zur Erzeugung und Wiedergabe von Information
Unite de reproduction et de creation d'informations

PATENT ASSIGNEE:

SHARP KABUSHIKI KAISHA, (260710), 22-22 Nagaike-cho, Abeno-ku, Osaka-shi, Osaka-fu 545-0013, (JP), (Proprietor designated states: all)

INVENTOR:

Yamada, Satoshi, 7-12, Hatakeda 3-chome, Oji-cho, Kitakatsuragi-gun, Nara, (JP)

Ueda, Hiroomi, Oburan Tomio 809, 2164-1 Mitsugarasu-cho, Nara-shi, Nara, (JP)

Senoo, Seiichi, 248-11, Oazakosaka, Tawaramoto-cho, Shiki-gun, Nara, (JP)

Satou, Tsutomu, 406, 6-20, Taisho 1-chome, Kashiwara-shi, Osaka, (JP)

LEGAL REPRESENTATIVE:

Muller, Frithjof E., Dipl.-Ing. et al (8661), Muller Hoffmann & Partner
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PATENT (CC, No, Kind, Date): EP 720121 A2 960703 (Basic)
EP 720121 A3 000531
EP 720121 B1 040317

APPLICATION (CC, No, Date): EP 95120435 951222;
PRIORITY (CC, No, Date): JP 94328202 941228; JP 94328203 941228; JP 9557445
950316; JP 9559114 950317
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS (V7): G06K-019/06; H04N-001/21; G06F-019/00
ABSTRACT WORD COUNT: 136

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	1276
CLAIMS B	(English)	200412	1510
CLAIMS B	(German)	200412	1290
CLAIMS B	(French)	200412	1737
SPEC A	(English)	EPAB96	21695
SPEC B	(English)	200412	21642
Total word count - document A			22975
Total word count - document B			26179
Total word count - documents A + B			49154

...SPECIFICATION on the printing sheet in both the type pattern and two-dimensional bar code.

The printing means prints the inputted document information on the printing sheet in two-dimensional bar code.

With such a structure, all the print information can be kept secret.

The printing means prints, on the printing sheet, a part of the inputted document information in the type pattern, and others...

...SPECIFICATION on the printing sheet in both the type pattern and two-dimensional bar code.

The printing means prints the inputted document information on the printing sheet in two-dimensional bar code.

With such a structure, all the print information can be kept secret.

The printing means prints, on the printing sheet, a part of the inputted document information in the type pattern, and others...

13/3,K/22 (Item 22 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2009 European Patent Office. All rts. reserv.

00596272

Ink-jet printer

Tintenstrahldrucker

Imprimante a jet d'encre

PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730000), 4-1, Nishishinjuku 2-chome,
Shinjuku-ku Tokyo-to, (JP), (applicant designated states:
CH;DE;FR;GB;IT;LI;NL;SE)

INVENTOR:

Fukushima, Tohru, c/o Seiko Epson Corporation, 3-5, Owa 3-chome,
Suwa-shi, Nagano, (JP)

Kanbayashi, Kenichi, c/o Seiko Epson Corporation, 3-5, Owa 3-chome,
Suwa-shi, Nagano, (JP)
Kumai, Eiji, c/o Seiko Epson Corporation, 3-5, Owa 3-chome, Suwa-shi,
Nagano, (JP)

LEGAL REPRESENTATIVE:

Diehl, Hermann, Dr. Dipl.-Phys. et al (2996), DIEHL, GLASER, HILTL &
PARTNER Patentanwalte Fluggenstrasse 13, 80639 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 602646 A2 940622 (Basic)
EP 602646 A3 940727
EP 602646 B1 971015

APPLICATION (CC, No, Date): EP 93120328 931216;

PRIORITY (CC, No, Date): JP 92336382 921216; JP 92336383 921216; JP
93105580 930506; JP 93314134 931119

DESIGNATED STATES: CH; DE; FR; GB; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS (V7): B41J-002/165; B41J-002/155;

ABSTRACT WORD COUNT: 176

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9710W2	699
CLAIMS B	(German)	9710W2	593
CLAIMS B	(French)	9710W2	784
SPEC B	(English)	9710W2	4704
Total word count - document A			0
Total word count - document B			6780
Total word count - documents A + B			6780

...SPECIFICATION a signal is supplied to the drive unit 20. In response to
this signal, the print head 1 is moved a predetermined distance in the
paper width direction, for example, the direction F. As a
result, an image of ink is formed at the position designated by the
print data as previously stated.

At the completion of forming the ink image of the print data on the
intermediate recording medium 3, a recording paper 26...

13/3,K/23 (Item 23 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2009 European Patent Office. All rts. reserv.

00563605

Method and apparatus for printing medical information signals
Verfahren und Vorrichtung zum Aufzeichnen von medizinischen
Informationssignalen

Procede et dispositif pour enregistrer des signaux d'information medicale
PATENT ASSIGNEE:

SPACELABS MEDICAL, INC., (1617320), 15220 N.E. 40th Street, Redmond,
Washington 98073, (US), (applicant designated states:
CH;DE;FR;GB;IT;LI)

INVENTOR:

Vance, Gary Charles, 720 - 10th Court, Fox Island, Washington 98333, (US)
LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)
, Maximilianstrasse 58, 80538 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 559194 A1 930908 (Basic)

EP 559194 B1 960619
 APPLICATION (CC, No, Date): EP 93103484 930304;
 PRIORITY (CC, No, Date): US 846088 920305
 DESIGNATED STATES: CH; DE; FR; GB; IT; LI
 INTERNATIONAL PATENT CLASS (V7): B41J-011/58;
 ABSTRACT WORD COUNT: 164

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	2166
CLAIMS B	(English)	EPAB96	2782
CLAIMS B	(German)	EPAB96	2638
CLAIMS B	(French)	EPAB96	3104
SPEC A	(English)	EPABF1	3645
SPEC B	(English)	EPAB96	3576
Total word count - document A			5811
Total word count - document B			12100
Total word count - documents A + B			17911

...CLAIMS predetermined width of paper dispensed by said paper tray means,
 said printer means being responsive to said sensor means and said
 medical information signals to print information
 corresponding to said medical information signals in a format
 determined responsive to said sensor means, said paper tray means
 further including engagement means constructed to mate with the
 paper of the predetermined width to apply a force to the
 paper so that the paper engages said printer means and so that a
 predetermined amount of pressure is created...

13/3,K/24 (Item 24 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2009 European Patent Office. All rts. reserv.

00368286

Data processing apparatus.
 Datenverarbeitungsvorrichtung.
 Appareil de traitement de donnees.

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
 Tokyo, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

Morita, Tetsuya, 6-22, Suge 6-chome Tama-ku, Kawasaki-shi Kanagawa-ken,
 (JP)

Yamano, Hiroshi, 19-3, Aobadai 1-chome Midori-ku, Yokohama-shi
 Kanagawa-ken, (JP)

Isaka, Yukio, 9-39, Sasanodai Asahi-ku, Yokohama-shi Kanagawa-ken, (JP)

Ishizuka, Haruo, 9-23, Gohongi 2-chome, Meguro-ku Tokyo, (JP)

Murata, Masahiko, 1261-17-410, Wada, Tama-shi Tokyo, (JP)

Sakai, Masahiko Canon Miyazakidairyo, 1-3, Miyazaki 6-chome Miyamae-ku,
 Kawasaki-shi Kanagawa-ken, (JP)

Kubota, Tsutomu, 1-4-409, Kamatahoncho 1-chome, Ohta-ku Tokyo, (JP)

LEGAL REPRESENTATIVE:

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 Court High Holborn, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 354791 A2 900214 (Basic)
 EP 354791 A3 900926
 EP 354791 B1 950412
 APPLICATION (CC, No, Date): EP 89308138 890810;
 PRIORITY (CC, No, Date): JP 88198921 880811; JP 88229725 880916; JP
 88304661 881201; JP 88316500 881216; JP 891230 890109; JP 892141 890110
 ; JP 8913095 890124
 DESIGNATED STATES: DE; FR; GB
 INTERNATIONAL PATENT CLASS (V7): G06K-015/00;
 ABSTRACT WORD COUNT: 59

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	750
CLAIMS B	(English)	EPAB95	426
CLAIMS B	(German)	EPAB95	374
CLAIMS B	(French)	EPAB95	473
SPEC A	(English)	EPABF1	12052
SPEC B	(English)	EPAB95	11767
Total word count - document A			12803
Total word count - document B			13040
Total word count - documents A + B			25843

...SPECIFICATION by the host computer are not loaded in the apparatus, the printing operation is interrupted by terminating the data reception after a command designating said ~~sheet size~~.

In such case, therefore, it is necessary to vary the ~~format~~ of the ~~print data~~ in the host computer, or to replace the printing sheets loaded in the printing apparatus.

Furthermore, an assignee of the present application has some patents...

...SPECIFICATION by the host computer are not loaded in the apparatus, the printing operation is interrupted by terminating the data reception after a command designating said ~~sheet size~~.

In such case, therefore, it is necessary to vary the ~~format~~ of the ~~print data~~ in the host computer, or to replace the printing sheets loaded in the printing apparatus.

Furthermore, an assignee of the present application has some patents...

13/3,K/25 (Item 25 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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00355956

Method and device for controlling a carriage motor and paper feed motor of a printer

Verfahren und Vorrichtung zur Steuerung des Druckwagen- und Papierantriebes eines Druckers

Methode et dispositif pour commander les moteurs d'avancement du chariot et d'avancement du papier pour une imprimante

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PATENT (CC, No, Kind, Date): EP 373558 A2 900620 (Basic)
EP 373558 A3 910102
EP 373558 B1 930811
APPLICATION (CC, No, Date): EP 89122825 891211;
PRIORITY (CC, No, Date): JP 88313331 881212
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INTERNATIONAL PATENT CLASS (V7): B41J-029/38
ABSTRACT WORD COUNT: 253

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB97	822
CLAIMS B	(German)	EPAB97	658
CLAIMS B	(French)	EPAB97	970
SPEC B	(English)	EPAB97	2817
Total word count - document A			0
Total word count - document B			5267
Total word count - documents A + B			5267

...SPECIFICATION character pitch, a character magnifying factor, etc. are
supplied from the host computer 5 to the printer control device 1 prior
to the entry of print data, print action data such as print
control commands, etc. Such format data are sent from
the I/F section 3 to the CPU 9 and written in a dedicated area of the RAM
15.

The...

...the embodiment which is performed between two successive shift actions
of the carriage 25 will be described with reference to Figs. 4(A) and (B)
and Fig. 5.

Fig. 4(A) shows the drive sequence of the CR motor 23, in
which j is an acceleration zone, k is a constant-speed zone, l is...

13/3,K/26 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01313061 **Image available**
METHOD FOR AT LEAST PARTIALLY COMPENSATING FOR ERRORS IN INK DOT PLACEMENT
DUE TO ERRONEOUS ROTATIONAL DISPLACEMENT
PROCEDE POUR LA COMPENSATION AU MOINS PARTIELLE D'ERREURS DANS LE PLACEMENT
POINTS D'ENCRE DUES A UN DEPLACEMENT ROTATIONNEL ERRONE
Patent Applicant/Assignee:
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Wales 2041, AU, AU (Residence), AU (Nationality), (For all designated
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Patent and Priority Information (Country, Number, Date):
 Patent: WO 2005120835 A1 20051222 (WO 05120835)
 Application: WO 2004AU706 20040527 (PCT/WO AU04000706)
 Priority Application: WO 2004AU706 20040527

Designated States:
 (All protection types applied unless otherwise stated - for applications
 2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
 DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
 RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
 (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO
 SE SI SK TR
 (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 (AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
 (EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English
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 Fulltext Word Count: 618378

Fulltext Availability:
 Detailed Description
 Claims

Claim

... a new DMA descriptor is made available by software. In circular buffer mode, a new descriptor contains updates to the parameters of the single buffer ~~area~~ being used for a particular endpoint, to be applied immediately by the hardware. In double buffer mode a new descriptor contains the parameters of a...

...which may be read from. DmalnnStrmPtr points to the next address to be read from and is incremented after each memory access. In streaming mode, ~~data~~ transfer from DRAM to the endpoint's local packet buffer is initiated when the local buffer is empty. The DMA controller fills the local packet...There are five bulk OUT endpoints in the LTDU. At full speed, wMaxPktSize can be 8, 16, 32 or 64 bytes, as programmed in the

configuration register FsEpSize. At high speed, wMaxPktSize is 512 bytes. The endpoint data is transferred into the local packet buffer, and from there it is written...

...are four bulk IN endpoints available in the UDU. At full speed, wMaxPktSize can be 8, 16, 32 or 64 bytes, as programmed in the configuration register FsEpSize. At high speed, wMaxPktSize is 512 bytes. Each bulk IN endpoint has a dedicated 64-byte local packet buffer. When data is requested...

...available for that transfer. The host may start a new transfer, and retrieve any remaining data, 64 bytes at a time. I 0 If the data is unavailable (if the local packet buffer does not contain either a full packet or the first 64 bytes of a packet), the UDU issues...

...ms. 1 5 IntVbusTransition This indicates that the input pin gpio-udLk-vbus status has changed state from Vto'l o or vice versa. The configuration register VbusStatus contains the present value of this signal. 1 6 IntBufOverrun In streaming mode, an OUT packet was received but the local control or...

...IN Taken care of by UDC20, not seen by the application
 SET-ADDRESS OUT Taken care of by LIDC20, not seen by the application
 SET-CONFIGURATION OUT Passed to the application via an interrupt which must be acknowledged (IntSetCsrsCfg).
 SET-DESCRIPTOR OUT Passed to the application via the Endpoint 0 OUT...

...stage, a status write will be issued by the UDC20 to indicate whether the transaction was successful. If the transaction was not successful, the IN data is kept in the local buffer and the USB host 5 is expected to retry the transaction. If the transaction was successful, the IN data is flushed from the local buffer. There may be more than one data transaction in the Data stage, if the amount of data to be sent is greater than wMaxPktSize0. Any extra data packets are transferred in a...

...how the configuration register StatusOutResponse is programmed, which is described in Table 53. There are four options:

- the response is a NAK and the data (if present) is discarded
- the response is an ACK and the data (if present) is discarded
- the response is an ACK and the...data ends up in the circular buffer in DRAM. The following lists the different scenarios.

All modes
 If the packet was received successfully, any remaining data is written out to DRAM and an interrupt is triggered on IntEpnOutPktWrAlB. If it was a short or zero length packet, an interrupt also occurs...

...not assert its
 udt@
 qpu rd tually been written to the
 y signal in response to a CPU bus write until the data has ac
 configuration register in the UDC20, when the signal udc20-csrack

is asserted. Therefore, bus latency will be a couple of cycles higher for all writes to...

13/3,K/27 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00984073 **Image available**

PRINTING CARTRIDGE WITH TWO DIMENSIONAL CODE IDENTIFICATION
CARTOUCHE D'IMPRESSION A IDENTIFICATION DE CODE A DEUX DIMENSIONS

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200313869 A2-A3 20030220 (WO 0313869)
Application: WO 2002AU915 20020709 (PCT/WO AU0200915)
Priority Application: US 2001922159 20010806

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 142147

Fulltext Availability:

Detailed Description

Detailed Description

... that comprises

a housing;
a media colorant supply arrangement positioned within the housing and
containing a supply of media colorant; and a two dimensional code
positioned on the housing, the two dimensional code carrying
data relating to the media colorant.

According to a fourth aspect of the invention, there is provide method of
determining media of a printing cartridge, the...of the ACP chip 31 to
reduce incremental design cost. Alternatively, a separate 3D Artcam ACP
can be designed. This option will reduce the manufacturing cost of
a mainstream single sensor Artcain.

Print roll authentication chip 53

A small chip 53 is included in each print roll 42. This chip replaced the functions of the bar code, optical sensor and wheel, and ISO/ASA sensor on other forms of camera film units such as Advanced Photo Systems film cartridges.

The authentication ...The Artcarn unit 1 can utilize any color print technology which is small enough, low enough power, fast enough, high enough quality, and low enough cost, and is compatible with the print roll. Relevant printheads will be specifically discussed hereinafter.

The specifications of the ink jet head are.

Image type Bi-level, dithered

Color CMY Process Color...motor 37

The Artcard reader motor propels the Artcard past the linear image sensor 34 at a relatively constant rate. As it may not be cost effective to include extreme precision mechanical components in the Artcard reader, the motor 37 is a standard miniature motor geared down to an appropriate speed...can be inserted. The APC 31 detects the pressing of the button, and reverses the Artcard reader motor 37 to eject the card.

Card status indicator 66

A card status indicator 66 is provided to signal the user as to the status of the Artcard reading process. This can be a standard bi-color (red/green...full motion image display which operates as a viewfinder, as a verification of the image to be printed, and as a user interface display. The cost of ...large number of processes able to be implemented as microcode) Functionality can be added to Vark (via microcode) with no impact on hardware design time

Size and Content

The CPU loaded microcode RAM 196 for controlling each PU e.g 178 is 128 words, with each word being 96 bits wide...of data blocks eg. 1104, with each data block separated from the next by a gap of 8 white dots eg. 1106. Depending on the print resolution, the number of data blocks on an alternative Artcard will vary. On a 1600 dpi alternative

13/3,K/28 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00984068 **Image available**

PRINTING CARTRIDGE WITH RADIO FREQUENCY IDENTIFICATION

CARTOUCHE D'IMPRESSION AVEC IDENTIFICATION PAR RADIOFREQUENCE

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Patent and Priority Information (Country, Number, Date):

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Priority Application: US 2001922047 20010806

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

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Fulltext Availability:

Detailed Description

Detailed Description

... According to a first aspect of the invention, there is provided a printing cartridge which comprises a housing; and a radio frequency tag that is positioned on the housing, the radio frequency tag carrying data relating to at least one of: a serial number of the cartridge, a media ...media and media colorant of a printing cartridge, the method comprising the step of reading a radio frequency tag positioned on a housing of the printing cartridge with a radio frequency tag reader positioned in a printing device with which the printing cartridge is engaged, the radio frequency tag carrying data relating to the media and the media colorant of the printing...wafers. CCD's are usually built in 6" wafer fabs, and economics may not allow a conversion to 12" fabs. Therefore, the difference in fabrication cost between CCD's and CMOS imagers is likely to increase, progressively favoring CMOS imagers. However, at present, a CCD is probably the best option.

The...of the ACP chip 31 to reduce incremental design cost.

Alternatively, a separate 3D Artcam ACP can be designed. This option will reduce the manufacturing cost of a mainstream single sensor Artcam.

Print roll authentication chip 53

A small chip 53 is included in each print roll 42. This chip replaced the functions of the bar code, optical sensor and wheel, and ISO/ASA sensor on other forms of camera film units such as Advanced Photo Systems film cartridges.

The authentication chip...The Artcam unit 1 can utilize any color print technology which is small enough, low enough power, fast enough, high enough quality, and low enough cost, and is compatible with the print roll. Relevant printheads will be specifically discussed

hereinafter.

The specifications of the ink jet head are.

Image type Bi-level, dithered

Color CNff Process Color

Resolution 1600 dpi

Print head length 'Page-width' (100mm)

1 Print speed 1 2 seconds per photo

Optional ink pLecture Controller (not shown)

The function of the ink pressure controller depends...to be the same as that used in the Artcam, with 1600 dpi (63dprnm) resolution. A major feature of the Artcard 9 is low manufacturing cost. Artcards can be manufactured at high speeds as a wide web of plastic film. The plastic web ...can be inserted. The APC 31 detects the pressing of the button, and reverses the Artcard reader motor 37 to eject the card.

Card status indicator 66

A card status indicator 66 is provided to signal the user as to the status of the Artcard reading process. This can be a standard bi-color (red/green...LCD, similar to those currently provided on silver halide and, digital cameras. Its main function is to show the number of prints remaining in the print roll 42 and icons for various standard camera features, such as flash and battery status.

Color display 5

The color display 5 is a full...types of images manipulated by the ACP. They are.

-CCD Image, which is the Input Image captured from the CCD.

-Internal Image format - the Image format utilised internally by the Artcam device.

Print Image - the Output Image format printed by the Artcam

These images are typically different in color space, resolution, and the output & input color spaces which can vary from camera to...the CPU responsible for loading it up. For the same space on chip, this tradeoff reduces the maximum size of any one function to the size of the RAM, but allows an unlimited number of functions to be written in microcode. Functions implemented using microcode include Vark acceleration, Artcard reading, and...flags can be used to generate coordinates that are then passed down the Input FIFO. The VL1W process can use these coordinates and create the output data appropriately.

Box Read Iterator

The Box Read Iterator is used to present pixels in

13/3,K/29 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00768007 **Image available**
PRINTING APPARATUS AND PRINTING METHOD
DISPOSITIF ET PROCEDE D'IMPRIMERIE

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Patent and Priority Information (Country, Number, Date):

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Priority Application: JP 99182936 19990629; JP 99353865 19991214

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CN KR US

(EP) DE FR GB IT

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Detailed Description

Claims

Detailed Description

... 131).

The apparatus (1, 101) according to the first aspect further comprises
price option selecting means (2, 102, 103) for allowing a user to select
price options for
15 printing the image information, wherein
the print means (14, 123) prints the image information read by the image
information read means (3, 104) on the sheet...

...above structure, the printing apparatus prints the
advertisement information on the sheet together with the image
information, therefore, the advertiser bears full or part of print
cost. Therefore, a user obtains printed images, especially digital
images at a low cost. The payment selecting 25 means allows the user to
optionally pay full cost to obtain resultant prints which are
occupied by the image information.

The apparatus (1, 101) according to the first aspect, wherein the image

information includes plural sets of unit...The current counter value represents any one of the printers 14-1 to 14. Now back to FIG. 4, the main controller 7 calculates total fee corresponding to the total print quantity N, and controls the display/operation panel 2 to display the total fee (step S5). The fee is calculated by, for example, quantity x...frame memory B2. The main controller 7 further reads the ad image data set from the ad image memory B3, and develops it in an ad image area of the frame memory B2. Thus, the developed image and ad image are synthesized in the frame memory B2 which stores data for one image...

...image area B2- 1, and the ad image data set representing the ad image read from the ad image memory B3 is developed in the ad image area 132. The ad image may be a text-only image, a photograph of celebrities or professional athletes provided by the advertiser, illustrated characters, or the...the target data image on the read 1 0 image area 132-1 in the frame memory B2 without writing the ad image on the ad image area 132-2; and outputting thus prepared image data sets to the distribution controller B4 which sequentially distributes the image data sets to the printers 14...structure. For example, when a user inputs print designation, the print vending machine I provides the user with a 1 0 card on which a bar code for identification, outlet box No., and assumed print complete time are printed, and the outlet box is locked until the user shows or inserts the card into a bar code reader. Thus, only the user who actually operates the print vending machine I is allowed to take out the printed sheets. According to the above...

...That is, the ad images are previously printed on the back surface of the print sheet.

20 According to this case, the user also enjoys cost reduction because the advertiser bears the printing cost fully or partially. The number of the printers is not limited to 8. Arbitrary number of the printers may be applicable, but at least two...this embodiment. The print vending machine 101 comprises a display/operation panel (display and touch panel) 102, input keys 103, media slots 104a to 104e, indicator lamps 105a to 105e, a fee display 106, a bill slot 107a, a coins slot 107b, a cancel button 108, a receipt insert slot 109 ...images captured by, for example, frame by frame. The digital images may be converted digital data which originates from images captured by a scanner.

The indicator lamps 105a to 105e comprises, for example, LED (Light Emitting Diode), and corresponds to the media slots 104a to 104e respectively for 20 indicating that the media is being inserted. For example, the indicator lamp 105c is lit when a memory stick is inserted correctly in the media slot 104c, thus, a user confirms the right insertion.

The bill...and coins inserted into the bill/coin slot 107, 25 displays counted value on the fee display 106, and checks whether the account fits the fee in accordance with the designated print quantity. The account manager 136 performs processing in accordance with an instruction ...C) ink band toward the print sheet, thus, images are formed thereon.

Each of the unit printers 123-1 to 123-8 further comprises a sheet width sensor which senses the width of the print sheet 153, a sheet emptiness sensor which detects whether the print sheet 153 is supplied or not... displays the result on the display/control panel 102 and fee display 106 (step S504). The fee is calculated by, for example, quantity x 5 price/sheet (depending on print size) + tax.

Then, the user selects the service mode through the mode selecting icons displayed on the display/control panel 102 (step S505). In a case...130 selects one which shows the largest number of the sheets from available ones of the unit printers 123-1 to 123-8, and transfers print information to the selected printer. This structure allows non-stop operation if all of the unit printers 123-1 to 123-8 are available ones, thus, improving print speed of the automatic...the print sheets 153. Each of the unit printers 123-1 to 123-8 may be compatible with different types of print sheets (for example, sheet size). Distribution processing suitable for such the case will now be described.

FIG. 23 is a flowchart for explaining such the distribution processing. For comprehensive explanation...In response to power on, each of the unit printers 123-1 to 123-8 detects size of the print sheets 153 with using a sheet width sensor WS (see FIG. 17), and the 0 detection results are input to the print controller 140. Each print controller 140 informs the main controller 130 of the detection results given by the relating sheet width sensor WS. Thus, the main controller 130 recognize widths of the print sheets 153 in the unit printers 123-1 to 123-8 (step S1001). The sheet width sensor WS detects the sheet width by sensing the position of an upright plate which 5 is slidably moved in accordance with the sheet width in a sheet cassette. The main controller 130 may ask the unit printers 123-1 to 123-8 the sheet size respectively.

After the pre-print processing shown in FIG. 18, the main controller 130 prepares print jobs and stores them in the buffer B 161...
...holds the print job ("YES" at step S 1002), the main controller 130 reads the print information included in the print job to determine the sheet size (step S 1003).

The main controller 130 select ones from the unit printers 123-1 to 123-8, which are available and compatible with the determined sheet size (step S 1004).

If the designated print size is "L size", for example, the unit printers 123-1 to 123-3 are selected. Then, the instead of the sheet width sensor WS.

The automatic print vending machine 101 according to this embodiment may have warning function which informs a user of print sheet exhaustion in ...set start the printing (step S I 1 16). A method same as that shown in FIG. 19 or FIG. 20 is applicable to the print information distribution.

1 0 The above described structure avoids the user from extra

unnecessary designation for substantially impossible printing. This structure also allows the user to select printing with quantity designated so far...was issued. At the estimated time, the user may approach the vending machine 101 and picks up his/her prints from the outlet where the indicator 170 indicates his/her ID.

Moreover, next user can immediately follow to use the vending machine 101 without waiting for completion of outputs for the...will be done in accordance with the fetched print spec information.

FIG. 27 exemplifies user information printed on a receipt. As shown in FIG.

27, bar codes representing user ID and password are printed on the receipt.

If a user designates print spec such as brightness, contrast, and color balance at the...

Claim

... 131).

2 The apparatus (1, 101) according to claim I further comprising price option selecting means (2, 102, 103) for allowing a user to select price options for printing the image information, wherein said print means (14, 123) prints the image information read by said image information read means (3, 104) on said sheet...

13/3,K/30 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00376923

STRUCTURED FOCUSED HYPERTEXT DATA STRUCTURE
STRUCTURE DE DONNEES HYPERTEXTE ARTICULEE SUR LA STRUCTURATION
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Patent and Priority Information (Country, Number, Date):

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Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE
KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
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RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 263802

Fulltext Availability:

Detailed Description

Detailed Description

... graphical image, or motion video rather than text, but have no way of
knowing based on the presence of a hypertext link whether

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the tarizet document contains such information. As a result, they are
often required to jurrrip to the other document just to discover whether
...to-many relationship, i.e., the Child Para aph ID can store many
Paragraph IDs. As a result, one page or

9

1 5

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screen can be linked to many paragraphs, i.e., many paragraphs can appear
on each screen. See, for example, Fig. 4.

Similarly, the...screen, which can be accessed by following the links
through Screen Table 28 and Link Table 24 to the Paragraph table 22.

2 1

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The relative positions within the hierarchy of the source screen
containing the paragraph containing the hypertexted word or phrase and
the tarizet screen...

...Fig. 3), which is linked in a one-tomany relationship to the Type field
in the Hypertext Nodes 34. The system can

2 2

SUBSTITUTE SHEET (RULE 26)

automaticaliv determine the proper color coding based on the node type,
and the node types can be automatically and dynamically updated after the
...provides for some of the quality control testing described above
relating to pages, such as verifying default parents and checking
subchapter structure.

2 8

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Fig. 12 is a "Chapter Editor" screen similar in function and appearance
to the "Page Editor" screen. This screen alloWs for the setting...claims.

31

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SOURCE CODE APPENDIX

BAS file

.....
..... 33 - 272 DataBases
.....

```

..... 273 - 1056 FRM files
.....
..... 1057 - 1514 MAK
.....
..... 1515 -1517
32
SUBSTITUTE $SHEET (RULE 26)
ALGEDITO.BAS Global AloorithmID As Long
Option Explicit
Global NodesInAlgorithm(.) As
Type HyperTextNodesInAlgorithm HyperTextNodesInAlgorithm
TextNumber As Inteaer Global CountNodes As Integer
StartCharacter As...MULTISELECTI YI It) =
ON-WIDTH = 55 frmAigon'thmEditor-InLine(LineNumb
Global Const er).YI
PROPERTY -ROW -WIDTH = 6 tblAlgorithmShapes("Shape
Global Const PROPERTY-ROW-Y2 Width/Line Y2") =
=6 fmiAlgorithmEditor.inLine(LineNumb
Global Const er).Y2
PROPERTY -ROW-NODE = 6
Global Const tblAlgorithmShapes.Update
PROPERTY -ROW-TEXT-LEFT = 7 tblAlgorithmShapes...True
fmiAlgon'thmEditor.picText(TextNum
End If ber).FontItalic = True
Next TextNumber End If
RefreshText TextNumber
End Sub TextChanged(TextNumber)
True
End If
38
SUBSTITUTE $SHEET (RULE 26)
Next TextNumber MsgBox "Must be number
greater 0"
End Sub Exit Sub
End If
Sub ChaneeFontOnMultiselection fm-lAhzor'thmEditor.picText(T
extNumber).FontSize...CountTexts
For ShapeNumber = 0 To
If TextSelected(TextNumber) Then CountShapes - I
If Not If ShapeSelected(ShapeNumber)
NumericGreaterO(frmShapeProperties.t Then
xtValue.Text) Then
39
SUBSTITUTE $SHEET (RULE 26)
frmAigorithmEditor.shpShape(ShapeN frniAlgorithinEditor.picText(FindedTe
umber).Left = xtNumber).Top =
Val(frmShapeProperties.txtValue.Text Val(frmShapeProperties.txtValue.Text
ShapeChanged(ShapeNumber') DrawControlPointsForText
True FindedTextNumber...Fi
ndedTextNumber).FontSize =
frmShapeProperties.dlgColor.FontSize ShapeChanged(FindedShapeNumber)
frm.AlgorithmEditor.picText(Fi True
ndedTextNumber).ForeColor = Else
frmShapeProperties.dlgColor.Color ChangeBorderColor
frmAlvorithmEditor-InLine(FindedLin
41

```

```

SUBSTITUTE SHEET (RULE 26)
eNumber), if
Val(frmShapeProperties.txtValue.Text frmShapeProperties.cmbShapes.itemD
ata(frmShapeProperties.cmbShapes.Lis
tIndex) < CountShapes Then
LineChanged(FindedLineNumber) ChangeShapeNarnejag
True frmAigorithmEditor.shpShape(Finded...tartRow Case
Case PROPERTY ROW BORDER WIDT
PROPERTY-ROW-BORDER.COLO H
R If Not
ClearPointOnMultiSelected IsNumeric(frmShapeProperties.txtValu
e.Text) Then
ChangeBorderColorOnMultiSelection
45
SUBSTITUTE SHEET (RULE 26)
MsgBox "Must be number Else
from 1 to 8192" ChangeY2OnMultiselection
Elseif Not End If
Between(Val(frmShapeProperties.txtV End Select
alue.Text), 1...frmShapeProperties-cmbShapes.ListCo
Sub unt - I
ChangePropertvValueMultiSelectShap if
eLine frmShapeProperties.cmbShapes.ItemD
ata(ItemNumber) =
Select Case FindedLineNumber + CountShapes
frmShapeProperties.grdProperties.Sels Then
tartRow
47
SUBSTITUTE SHEET (RULE 26)
if
fn-nShapeProperties.cmbShapes.Listln frmShapeProperties.cmbShapes.ListIn
dex = ItemNumber Then dex = ItemNumber
RefreshProperties End If
Else Exit For
End If
frrnShapeProper-ties...

...ata(ItemNumber) = Val(frmShapeProperties.txtValue.Text
FindedShapeNumber Then
if End If
frmShapeProperties.cmbShapes.Listln Next ShapeNumber
dex = ItemNumber Then
RefreshProperties End Sub
Else
48
SUBSTITUTE SHEET (RULE 26)
Sub Chang.eShapeNarne
Tag (Object Next ShapeNumber
As Control. BvVal NewName As
String) End Sub
Dim PlacelnComboShapes As Integer Sub ChangeTextLeftOnMultiSelection
Dim IternNurnber...End If End If
frniAlgorithmEditor.shpShape( fnnAlgorithmEditor.picText(T
ShapeNumber).Top = extNumber).Top =
Val(frmShapeProperties.txtValue.Text Val(frmShapeProperties.txtValue.Text
End If

```

```

49
SUBSTITUTE SHEET (RULE 26)
TextChanized(TextNumber)
Sub ChanaeX I OnMultiselection
True
End If Dim LineNumber As Integer
Next TextNumber
For LineNumber = 0 To CountLines
End Sub
If...ID] = AlgorithmID Unused Texts")
DeleteObjects.Execute DeleteUnused-Execute
DeleteObjects.Close DeleteUnused-Close
End Sub Set DeleteUnused =
dbHyperText.OpenQuervDef("Delete
Unused Nodes in Algorithmes")
52
SUBSTITUTE SHEET (RULE 26)
DeleteUnused.Execute
DeleteUnused.Close frmAlgorithmEditor-fraPointLineResiz
ing(0).Visible = True
End Sub
fmiAlgorithmEditor-fraPointLineResiz
Sub DrawControlPointsForLine ing(1).Visible = True
(LineNumber As Integer...

...Integer
ing(0).Visible = False
HalfControlPointSize
fmiAlgorithmEditor.fraPointLineResiz fmiAlgorithmEditor.fraPointShapeRes
ing(1).Visible = False izing(0).Width / 2
ControlPointSizeDiv3
ftTnAlgorithmEditor.Refresh frmAigorithmEditor.fraPointShapeRes
izing(0). Width / 3
fmiAlgorithmEditor.fraPointLineResiz Half'ShapeWidth
ing(0).Top = frmAigorithmEditor.shpShape(ShapeN
fmiAlgon'thmEditor.inLine(LineNumb umber).Width / 2
er).Yl - ControlPointSizeDiO HalfShapeHeight
fn-nAlgorithmEditor.shpShape(ShapeN
frmAlgon'thmEditor.fraPointLineResiz umber).Height / 2
ing(0).Left =
fmiAlgorithmEditor.inLine(LineNumb if
er).XI - ControlPointSizeDiO...fmiAlgorithmEditor.shpControlPointF
ControlPointSizeDiv3
orSelectedText(0).Width 3 ) frmAigorithmEditor.shpContro
lPointForSelectedText(ControlPointNu
mber).Left =
frniAlgorithmEditor.picText(FindedTe
55
SUBSTITUTE SHEET (RULE 26)
xtNumber').Left + HalfrextWidth xtNumber). Width
HalfControlPointSize HalfControlPointSize * 1.2
Case "Top
Right" Case "Bottom"
fmiAlgorithmEditor.shpContro fmiAlgorithmEditor.shpContro
lPointForSelectedText(ControlPointNu lPointForSelectedText(ControlPointNu
mber).Top = mber).Top =

```



```

fnnAlgorithmEditor.picText(FindedTe fmlAigorithmEditor...sh.Top
End Sub DrawPoint sh.Left + sh.Width PointSize, sh.Top + HalfShapeHeight
Sub DrawPointOnMultiSelected (PointSize / 2)
Dim PointSizeDiv3 As Single DrawPoint sh.Left + sh.Width Dim
PointSize As Single PointSize, sh.Top + sh.Height
PointSize
Dim HanhapeWidth As Single DrawPoint sh.Left +
Dim HalfShapeHeight As Single HalfShapeWidth - (PointSize / 2),
Dim...

...tblAlgon'thmShapes("Algon'thm ID")
MultiSelection = True AlgorithmID
Set tX tblAlgorithmShapes("Shape Type
fmiAlgorithmEditor.picText(TextNum ID") = TOOL -LINE
ber) tblAlgorithmShapes("Shape Border
HalfTextWidth tx.Width / 2 Color") =
HalfTextHeight tx.Heivht / 2 fmiAlgorithmEditor-InLine('LineNumb
er).BorderColor
DrawPoint tx.Left - PointSize, tbiAlgorittunShapes("Shape Border
tx.Top - PointSize Width") =
DrawPoint tx.Left...TOP es.Col = I
For RowNumber = 0 To 4
frmShapeProperties.grdProperties.Text
"Top" frmShapeProperties.grdProperties.Row
RowNumber
End Sub ftmShapeProperties.grdProperties.Text
= fill
65
SUBSTITUTE SHEET (RULE 26)
Next RowNumber
frmShapeProperties.grdProperties.Text
End Sub flyl of
Sub RefreshPropertiesForSingleLine
frmShapeProperties.grdProperties.Row
frmShapeProperties.grdProperties.Row PROPERTY.ROW-Y2
s = 7
fnnShapeProperties...

...BORDER-WIDT
frmShapeProperties.grdProperties.Text H
"X2"
frmShapeProperties.grdProperties.Text
frmShapeProperties.grdProperties.Row fm-lAlgorithmEditor.inLine(FindedLin
PROPERTY-ROW-Y I eNumber').BorderWidth
66
SUBSTITUTE SHEET (RULE 26)
frmShapeProperties.grdProperties.Row
frinShapeProperties. grdProperties. Row
PROPERTY-ROW-x I PROPERTY-ROW-BORDER-COLO
R
frmShapeProperties. vrdProperties.Text
frmShapeProper-ties.grdProperties.Text
fmiAlgorithmEditor...BOLD
PROPERTY ROW HEIGHT
frmShapeProperties.grdProperties.Text
frmShapeProperties.grdProperties.Text "FontBold"

```

```

fmiAlgorithmEditor.shpShape(Finded
ShapeNumber).Height frinShapeProperties.grdProperties.Row
= PROPERTY-ROW-FONT-COLOR
68
SUBSTITUTE SHEET (RULE 26)
frmShapeProperties.grdProperties.Text
frinShapeProperties.QrdProperties-Text
"FontColor" "Top"
frmShapeProperties.grdProperties.Row frmShapeProperties.grdProperties.Row
PROPERTY-ROW-FONT-ITALIC PROPERTY-ROW-TEXT-NAME
frmShapeProperties...If LinesID(ObjectNumber) = -I
Integer) Then
AddLine ObjectNumber
frmAlgorithmEditor.picText(TextNum Else
ber).Cls EditLine ObjectNumber
End If
fmiAlgorithmEditor.picText(TextNum End If
72
SUBSTITUTE SHEET (RULE 26)
Next ObjectNumber
frnShapeProperties.cmdCancel.Enable
For ObjectNumber = 0 To d = False
CountTexts - I End Sub
If TextChanged(ObjectNumber)
Then 'BIBILIO.BAS
If TextsID...

...ObjectNumber Type BiblioRecord
TI As String
ReDirn DeletedShapesAndLinesID(1) TO As String
CountDeletedShapesAndLines = 0 CM As String
ReDim DeletedTextsID(1) AU As String
CountDeletedTexts = 0 AD As String
SO As String
Erase LineChanged ISSN As String
ReDirn LineChanged(CountLines) OwnedByLibrary As Integer'boolean
CallNumber As String
Erase ShapeChanged PY As Integer...Chapter1D As Long Exit Do
End If
frmBiblio.istAllScreens.Clear Loop
frnBiblio.IstAssignedScreens.Clear End If
Article11) = '----Fill IstAllScreens
-----frmBiblio.dtaArticles.Recordset("ID")
.....

74
SUBSTITUTE SHEET (RULE 26)
tblBiblioLinksForScreens.lridex Function GetBiblioln1 (EntryName As
"Article - Screen IDs" String, DEFAULT As String) As
if String
tblAvailableScreensFromChaptersBibli
o.RecordCount = 0 Then Dim InitString...CONTROLMENU = 0
Global Const KEY-DIVIDE = &H6F Global Const FORM-CODE = I
Global Const KEY-F I = &H70 Global Const APP-WINDOWS = 2
81
SUBSTITUTE SHEET (RULE 26)

```

```

Global Const APP-TASKMANAGER Global Const ACTIVE -BORDER=
= 3 &H8000000A Active window
Global Const FORM
MDIFORM = 4 border.

Global Const INACTIVE BORDER=
Properties...7 I7. 14 ' 14 - Merge Pen Not
Size N S Global Const MERGE-PEN 15
Global Const SIZE-NW-SE = 8 '8 15 - Merge Pen
- Size NW SE Global Const WHITENESS 16
Global Const SIZE-W-E = 9 19 - 16 - Whiteness
Size W E
Global Const UP -ARROW= IO 'DrawStyle
I...be "In-Place Active" at a time,
although only one can be
'SizeModes "'InPlace UI-Active".
Global Const OLE SIZE CLIP = 0
Global Const OLE-SIZE-STRETCH 'You can cause an object to move to
= I either one of states programmatically
Global Const OLE SIZE AUTOSIZE by
setting the Verb property...Global Const SSCB TEXT LEFT = I Global Const
'I - Text to the left SSPI3 - AUTOSIZE-BUTTOPIC = 2
'O - Autosize Button to Picture
9 1
SUBSTITUTE SHEET (RULE 26)
Global Const
'Autosize (Ribbon Button) SS FLOODTYPE-NONE = 0 10
'Global Const SS7A UTOSIZE-NONE No-flood
= 0 IO - No Autosizing Global Const...Global Const MSOUTLINE-BADPICFORMAT
CONTROL E INVALID COMPOSE 32000
BUFFER ACTION= 32055 Global Const
Global Const MSOUTLINE-BADINDENTATION
CONTROL-E-FAILURE, = 32056 32001
98
SUBSTITUTE SHEET (RULE 26)
Global Const MSOUTLINE-MEM End Sub
32002
Global Const 'DATACONS.BAS
MSOUTLINE-PARENTNOTEXPAN Option Explicit
DED = 32003
Data Access constants
'CUSTOMIZ.BAS 'Option...SORTDUTCH=
'CreateDatabase and 259 ' Sort by Dutch rules
CompactDatabase Language constants Global Const DB-SORTSWEDFIN
Global Const DB-LANG-GENERAL 260 'SortbySwedish,Finnishrules
100
SUBSTITUTE SHEET (RULE 26)
Global Const DI3 SORTNORWDAN
-261 'SortbvNorwegian.Danish Screen.MousePointer = DEFAULT
rules GetParentFor.Show
Global Const DI3 SORTICELANDIC GetParentFor.MessageToUser.Caption
- 262 Sort bv...Edit
Do Until t.NoMatch End If
t.Delete ' remove this reference t("Default Parent Chapter")
t.Seek "% ChildScreen ChapterID
Loop t.Update

```

```

102
SUBSTITUTE SHEET (RULE 26)
t.Close End If
MsgBox "The default parent has t("Default Parent Chapter")
been set to " & ChapterName ChapterID
t. Update
End If t...Default Set ParagraphTable =
Parents for Screens is done", dbHyperText.OpenTable("Paragraph
MB lCONINFORMATION, "Hi Table")
Cutie" ParagraphTable.Index
"PrimaryKey"
End Sub End If
106
SUBSTITUTE SHEET (RULE 26)
I LinkTableBetweenScreenAndParagrap
ParagraphTable-MoveLast h("Paragraph Order Num. on Screen")
TotalNumPars = = I
ParagraphTable("Paragraph ID") + I LinkTableBetweenScreenAndParagrap
' fill in the paragraph defaults for...we I
let the user know Dim s As String, NumberOfChapters
As Long
Dim place As Long, Lastplace As
Long, AbsoluteStart As Long
110
SUBSTITUTE SHEET (RULE 26)
Dim NumberListed As Integer '2. Any repositionini
I g of the scroll
box must be "interpreted" so that
'This routine will load the...I must keep track of what I scanning for
more matches from
chapters are actually listed in the grid where we left off
III
SUBSTITUTE SHEET (RULE 26)
I StartAt
NumberListed = I frmSelect.IndexScroll.Value
If RespondingToQueryChange Then If StartAt >
place = TrackQueriedListOfChapiers(1) Then
FindNextMatchForQuery(Words(, place =
NumWords, StartAt, StopAt, se...Exit Do
downward from the new scroll End If
Ivalue which will "miss" the
previous value End If
If place + I > StopAt Then
112
SUBSTITUTE SHEET (RULE 26)
PCT/IL96/00131 Exit Do seems silly but we must search
End If backwards for the first match
place = place = StartOfRegularList
FindNextMatchForQuery(Words...chapter for the present screen Integer, Is
As Integer, i As Integer
If CurrentChapterID > 0 Then Dim Direction As Integer
ChapterID = CurrentChapterID
Else
114
SUBSTITUTE SHEET (RULE 26)
'this next if simply determines the start of the title, this does the

```

```

direction of the search appropriate search
If StartAt > StopAt Then...End If
frmSelect.IndexedSubchapterList.Sele F
ctedo - 1) = True IgnoreScrollChange True
IgnoreIndexSCclick = False SearchForChapterTitle
Else IgnoreScrollChange = False
On Error Resume Next End If
119
SUBSTITUTE SHEET (RULE 26)
PCT/IL96/00131 End Sub
tbITableOfChapters.index
Sub RecordChapterType "PrimaryKey"
tbiTableOfChapters.Seek
This routine reads the check boxes for ChapNum
the chapter type...Const
SpecifyChapterType.Check3.Value PROG-PHARMACOLOGY = 2
= False
SpecifyChapterType.Check4.Value Global Const LL -LJNLOCKED = 0
= False Global Const LL-EARLY-BETA
30
124
SUBSTITUTE SHEET (RULE 26)
Global Const LL LATEBETA = 60 frmPassword.Left = 20
Global Const LL HIGHBETA = 70 frmPassword.pnlExplanation.Visible
Global Const LL-MAX-BETA = 75 True...I next case is a chapter that has
V not to "examine" this entry children and many parents
during the first pass of
134
SUBSTITUTE SHEET (RULE 26)
If (DeleteNodeData.HasChildren)
And (DeleteNodeData.NumParents >
1) Then First. delete anv link
where the present chapter is
this is really a combination of...is called from the double click
ShowParentList
on the Page name ChapterIDList(NumActiveChapters)
DisplayAllParentsOfScreen
SCEnv ActiveSC = ActiveScreen ScreenPosition - I
SCEnv-NumInList = NumScInList MakeHeaderTitle
142
SUBSTITUTE SHEET (RULE 26)
End If if
TOCFuII.ListOfSubChaps.Sele Configuration.RecognizeManvParents
cted(ScreenPosition - 1) = True Then
TOCFuII.ListOfSubChaps.TopI ShowParentList ChapterID
ndex = 1lf(ScreenPosition > 9, End...aesthetis MsgBox Msg,
Else MB ICONSTOP, "Move Error"
MarkIfLast I
End If Case Else
End Function I
'This is a valid original node
149
SUBSTITUTE SHEET (RULE 26)
now make sure q! [Set to] = False
q.Execute'do the reset
Msg = "Are you sure that you q.Close

```

```

want to move...End If TargetScreenID = ScreenID
End If TOCFull.Tag = "AddNode"
Case
End Sub ADD-NOODE - TO-ALGORITHM
TargetScreenID = ScreenID
Sub OnDbClickOfSubchapter TOCFull.Tag =
"AddNodeToAlgorithm"
151
SUBSTITUTE SHEET (RULE 26)
Case SEARCHING must be evaluated - do they change
Screen.MousePointer the path or not.

HOURGLASS 'If the user changes the TOC and
PleaseWaitMessage...Chapter" I
frmInputBox.lblSuggestion 'If you got here then the new name
"Please specify the new name for the is truly new
chapter"
153
SUBSTITUTE SHEET (RULE 26)
'Set q = ResetTOCDispaly
dbHyperText.OpenQueryDef("Rename CLng(TOCFull.IstChapters.ListIndex
Chapter Name") + 1)
Set first parameter for rename End Sub
Msg = "Are you..."
...updates
End If I
End If Dim IndentLevel As Integer,
I RowOfParent As Integer, ParentID As
'Need to reload to show change Long
154
SUBSTITUTE SHEET (RULE 26)
IndentLevel tbITableOfChapters("Name of
ChapterIndentsList(PresentRow) chapter") = t2("Name of chapter")
0 tbITableOfChapters("Explanation")
RowOfParent t2("Explanation")
SearchUpForParentRow(indentLevel,
PresentRow) tbITableOfChapters("IsThisTheLast")
ParentID...the message about how
SearchUpForParentRow = NewRow to perform the copy
ChapterIDList(NewRow) MoveCopyANode-Label1.Visible
HoldValueInList True
ChapterNameList(NewRow) I
HoldNarnelInList End Function
156
SUBSTITUTE SHEET (RULE 26)
Sub SetContributor (BYVal ScreenID q, Execute' do the reset
As Long) q.Close
I
Dim ChapterID As Long End Sub
ChapterID Sub SetPriority...NewPriority) Then
dbHyperText.OpenQueryDef("Set MsgBox "This is not a valid value
IsThisTheLast after Delete") for priority"
q! [Chapter To Set] = ParentNode Else
157
SUBSTITUTE SHEET (RULE 26)
T.Edit Function StripOffSubChapterLeader

```

```

T("Priority") NewPriority (ByVal param. As String,
T.Update WithChapterName As Integer)
End If Dim I As Variant, s...

...s exists for the particular screen
and is used by the MainScr to set the
End Function icon
I
Dim d As dvnaset
158
SUBSTITUTE SHEET (RULE 26)
Set d =
dbMarks.CreateDvnaset("Tab1") If FileExist(MarksDatabasePath &
d-FindFirst "ScreenID & ScreenID "marks.tmp") Then
If d.NoMatch Then Kill MarksDatabasePath &
ThisScreenHasNotes = False...ID")
= MarkedScreenID IstBookMarks.ItemData(IstBookMarks
tblBookMarks.Update NewIndex) = tblBookMarks("Target
End If Screen ID")
tblBookMarks.MoveNext
End Sub Loop
Sub BackUpMarks IstBookMarks.Refresh
159
SUBSTITUTE SHEET (RULE 26)
Exit Sub ByVal lFrequency As Long, ByVal
nDuration As Integer) As Integer
EmptyList: Declare Function StartSound Lib
If Err = 3021 Then "Sound" ( As...

...As Else
Integer, ByVal nPitch As Integer) As BackupFile =
Integer End If
Declare Function SetVoiceSound Lib
"Sound" (ByVal nVoice As Integer, End Function
160
SUBSTITUTE SHEET (RULE 26)
Function Between (ByVal aPoint As Function
Single, ByVal XI As Single, ByVal ChangeAlMbSyrnbolsToSpaces
X2 As Single, Precision As Single) As (ByVal aText As...As String
'Determine form dimensions in
Dim DoubleSpacePosition As Integer twips.

save-mode = Place.ScaleMode
DoubleSpacePosition = InStr(s, save Scale... properties
Do While DoubleSpacePosition save width Place.ScaleWidth
s = Left$(s, DoubleSpacePosition - save
height Place.ScaleHeight
1) & Mid$(s, DoubleSpacePosition + Place.ScaleMode = I set units
2) to twips
DoubleSpacePosition = InStr(s...Error GoTo 0
End Function Exit Function
Function PathNotFound.

ExtractFileNameWithoutExtention If Err = 76 Then
(fileName As String) As String On Error GoTo 0
165

```

```

SUBSTITUTE SHEET (RULE 26)
Resume Next MaskForFormatExtention = "000"
Else Case 1
On Error GoTo 0 VersionsCount = 99
Resume MaskForFonnatExtention = "00"
End If Case 2
VersionsCount = 9
End...Single, ByVal Color As Long) itascopy.bmp"
Global Const
Dim d As Single I-MOVE-PARAGRAPH
llasmove-brnp"
If H < W Then
1 1
SUBSTITUTE SHEET (RULE 26)
Global Const Global ProcessfrinNotesActivateEvent
I-PREVIOUS-SCREEN-ON As Integer
"prepage.bmp"
Global Const Type Note
I-PREVIOUS-SCREEN-OFF NoteNumber As Integer...me") + SPACEVALUE = Nothing
Text22 = Text22 + AllofNotesForThisScreenld.Close
AllofNotesForThisScreenld("NoteDat Set AllofNotesForThisScreenld
e") + SPACEVALUE Nothing
If Not I
AllofNotesForThisScreenld("Note") End Sub
EMPTYVALUE Then
174
SUBSTITUTE SHEET (RULE 26)
Sub See -PersonaiNotesOnly Text22 = Text,22 +
'This subroutine is called in one place
PersonNotesForThisScreenld("UserNa
when the specific checkbox for me") & SPACEVALUE
I...Type POINTAPI Integer, ByVal cX As Integer, ByVal
x As Integer cY As Integer, ByVal wFlags As
Y As Integer Integer)
End Type
176
SUBSTITUTE SHEET (RULE 26)
Declare Function biSize As Long
WritePrivateProfileString Lib "Kernel" biWidth As Long
(ByVal IpApplicationName As String, biHeight As Long
ByVal IpKeyName As Any, ByVal...hMem As Integer) As
..... Long
..... Declare Function GlobalUnlock Lib
'declaration for print image "Kernel" (ByVal hMem As Integer) As
Type BITMAPfINFOHEADER-TYPE Integer
177
SUBSTITUTE SHEET (RULE 26)
Declare Function GlobalFree Lib XLeft As Integer 'text string. the
"Kernel" (ByVal hMem As Integer) As real string starts at " I
Integer YTop...

...location "O" is a theoretical Name As String * 30
TheCharNumOnLine As Integer Size As Single
'character localized before all the Bold As Integer
178
SUBSTITUTE SHEET (RULE 26)

```



```

Italic As Integer Global dbStatistic As Database
Color As Long Global tblUserStatistic As Table
End Type Global tblUsers As Table
Global UserID As...GoTo 0
n = 18' Else
Global Const
ctrlMain cmdGoToPreviousTutorialSc FindMarksDBFromPreviousInstallatio
reen = 191 n = False
Global Const End If
ctrlMain-cmdPlayTutorial = 20' Exit Function
180
SUBSTITUTE SHEET (RULE 26)
Case 1
MarksBackupDatabseCorrupted: PleaseWaitMessage "Some
If Err = 3049 Then files are being repaired." & CR( & "It
Select Case will take a few minutes. Pleas...InitString,
"mark tmp.mdb" As 255, "hypermed.ini")
MarksDatabasePath & GetApplicationslni
MarksDBBackupFileName Left$(InitString, Result)
ClearWaitMessage 'MsgBox Left$(InitString, Result)
dbMarksReparingStepNumber
End Function
Resume
181
SUBSTITUTE SHEET (RULE 26)
Function GetCOMMonlni (ByVal ProgrammNarne. "", InitString. 255,
EntryName As String, ByVal DatabasesPath & "ver.inf')
DEFAULT As String) As String GetVersion = Left$(InitString,
Result)
Dim...to especially handy pages" PicturesPath = Getlni("PicturePath",
ControlsHelp(ctrlMain -TOC) fill)
"Chapters arranged" & CR( & DatabasesPath
"according to hierarchy" Getlni("DatabasePath", fill)
SpeilDictonaryPath = DatabasesPath
183
SUBSTITUTE SHEET (RULE 26)
MarksDatabasePath Getlni("Marks
Database Path", Select Case
UCase$(Getlni("SaveConfigurationOn
Exit", "Off'))
Case "ON", "YES", "TRUE"
SaveCofigurationOnExit = True
Case Else
WWWWWWWWW SaveCofigurationOnExit = False...DoEvents
MarksDatabaseBackUpName As
Exit Sub MarksDatabasePath &
MarksDatabaseNarne
DBOpened: End If
Select Case Err dbMarksReparingStepNumber
Case 3000 2
MsgBox "Close database" ClearWaitMessage
Resume Resume
187
SUBSTITUTE SHEET (RULE 26)
Case 2
PleaseWaitMessage "Some RecordsCount = 0

```

```

files are being repaired." & CR( & "It Set tblPrintMarks
will take a few minutes. Please wait!", - dbMarks.OpenTable...
querCleanTable As QueryDef
End If ReDim FieldNotForCopy(0 To 0) As
Name MarksDatabasePath & String
MarksDatabaseName As Dim WorkAroundBug As Table
MarksDatabasePath & "marks.bak"
189
SUBSTITUTE SHEET (RULE 26)
'Book marks querCleanTable.Close
Set WorkAroundBug CopyTableB ByName dbMarksOld.

dbMarksOld.OpenTable("Bookmarks It dbMarks, "Tabl". "Tabl",
FieldNofforCopy(
Set querCleanTable WorkAroundBug.Close
dbMarks.OpenQueryDef...

...querCleanTable.Execute Dim CurrentYForPrinting As Integer
querCleanTable.Close Dim CurrentScreenTopY As Single
CopyTableB
ByName dbMarksOld,
dbMarks, "Printmarks", "Printmarks", Dim PrinterPaper-WidthUnit As
FieldNofforCopy( Single SUBSTITUTE SHEET (RULE 26)
Dim PrinterPaper TopMarginUnit As Set s
Single PicturesTable.CreateSnapshot(
Dim Set S =
PrinterPaper-XRatioToFormMain As tblAigorithmShapes.CreateSnapshot(
Single'Working Space on paper Ratio Set s =
Dim tbiAlgorithinTexts.CreateSnapshot(
PrinterPaper-YRatioToFormMain As
Single'really End Sub
Dim
PrinterPaper-SpaceBetweenScreens Sub AddBeforeAllChrIOSpace (strArg
As Single As ...Then
Set s = CountTopics
tblAlgorithmShapes.CreateSnapshot( UBound(SubchaptersIDForPrint)
Set s = For SubchapterNumber = 1 To
tblAigorithmTexts.CreateSnapshot( CountTopics
DrawScreen
End Sub SubchaptersIDForPrint(SubchapterNu
mber)
192
SUBSTITUTE SHEET (RULE 26)
For Copies = 1 To On Error GoTo 0
Val(frmPrint.txtCopies.Text) Resume 0
frmMain.PrintForm End Sub
PrintlnInformationAboutNodes
SubchaptersIDForPrint(SubchapterNu Sub drsaaaa...Case TOOL-CIRCLE
tblAlgorithmShapes("Shape Type ID") Pic.Circle
(tblIAlgorithmShapes("Shape Left/Line
Select Case ShapeType1) X211) - 10 +
Case TOOL LINE tblAigorithmShapes("Shape
Pic.Line Width/Line Y2") / 2,
(tblIAlgorithmShapes("Shape tblAlgorithmShapes("Shape Top/Line
Height/Line XI"), Y111) - 10 +
tblAigorithmShapes("Shape Top/Line tblAlgorithmShapes("Shape

```

```

YI "))- (tblAlgorithmShapes("Shape Height/Line XI 2),
Left/Line X2"), Min(tblAlgorithmShapes("Shape
tblAlgorithmShapes("Shape Height/Line XI"),
Width/Line Y2))), tblAlgorithmShapes("Shape
tblAlgorithmShapes("Shape Border Width/Line Y2")) / 2 - 5,
Color") tblAlgorithmShapes("Shape Border
Case TOOL-RECTANGLE Color")
194
SUBSTITUTE SHEET (RULE 26)
Case Function
TOOL ROUNDED RECTANGLE DrawTextParagraphIntoPrinter
Roundrec Pic...TopMarginUnit
HeightOnPrinter("Test") PrintedPartHeight
For BodyLineNumber Printer.NewPage
BodyLastLineNumber To ForHeadingPrinterCurrentY = 0
UBound(BodyLinesForPrinting) ForBodyPrinterCurrentY = 0
ForBodyPrinterCurrentY End If
PrinterCurrentY + Loop While NextPage
196
SUBSTITUTE SHEET (RULE 26)
DrawTextParagraphIntoPrinter ScreenTitle = ScreenTitle &
Max(ForHeadingPrinterCurrentY, (References)
ForBodyPrinterCurrentY) + End If
OneLineHeight
End Function
LinkTableBetweenScreenAndParagrap
Sub DrawTextsinAlgorithmForPrint h.Index = "Index I 11
(AlgorithmID As Long...ParagraphTable("Header Text"))
tblAlgorithmmesPlaces("Left") *
tblAlgorithmmesPlaces.Index PrinterPaper.XRatioToFormMain +
"PrimaryKey" PrinterPaper LeftMarginUnit,
tblAlgorithmmesPlaces("Top") *
tblAlgorithmmesPlaces.Seek PrinterPaper -YRatioToFormMain +
AlgorithmID PrinterCurrentY, fn-nMain.ScaleWidth
198
SUBSTITUTE SHEET (RULE 26)
* PrinterPaper-XRatioToFormMain Dim Line2HeightUnit As Single
PrinterAllPaperRatioToWidthWithout Dim Line3HeightUnit As Single
Marg, 6000 *
PrinterPaper -YRatioToFormMain Dim Result As Integer
(Printer.TwipsPerPixelX Dim StringSize...LeftMarginUnit, CurrentPrinterY,
CompletedLines(I To CountLines)String2, Len(String2))
Result CurrentPrinterY CurrentPrinterY +
GetTextExtentPoint(Printer.hDC, Line21-leightUnit 1.2
CutedPart, Len(CutedPart), StringSize)
200
SUBSTITUTE SHEET (RULE 26)
'Print string3 Result = TextOut(Printer.hDC,
Printer.FontName = FontName3 LeftMarginUnit, PaperHeightUnit
Printer.FontSize = FontSize3 Line I HeightUnit, PRODUCT-NAME,
Printer.FontItalic = False Len...
...CX - LinkTableBetweenScreenAndParagrap
LeftMarginUnit, PaperHeightUnit - h("Parent screen ID")
Line I HeightUnit, PageNumber, PrintedScreenID
Len(PageNumber))
End If PrintNodeInformationForParagraph

```

```

Printer.FontSize = FontSize3 / 2 LinkTableBetweenScreenAndParagrap
201
SUBSTITUTE SHEET (RULE 26)
h("Child Paragraph ID"), Offset
ParagraphTable HypertextNodesTable("Start
Character") - I
LinkTableBetweenScreenAndParagrap NumBytes
h.MoveNext HypertextNodesTable("End
if Character")
LinkTableBetweenScreenAndParagrap HypertextNodesTable("Start
h.EOF...Result Dim FullScreenOnPrinterHeight As
StretchPicToDC(CInt(Printer.hDC), Single
PicturesTable("Left") *
PrinterPaper -XRatioToFormMain + FullScreenOnPrinterHeight = 5600
PrinterPaper -LeftMarginUnit, PrinterPaper-YRatioToFormMain
PicturesTable("Top (Printer.TwipsPerPixelX
206
SUBSTITUTE SHEET (RULE 26)
Printer.TwipsPerPixelY) Function PrintScreenTitle (ScreenTitle
PrinterAllPaperRatioToWidthWithout As String, PrinterCurrentY As Single,
Marg 'height PagesPrinted As Integer) As Single
'Return new CurrentY
if
ScreenIncludePicturesOrAigorithm...IpBits, BitrnapInfo, PrinterPaper -
XRatioToFormMain
DIB-RGB-COLORS) (PrinterPaper - WidthUnit
PrinterPaper-LeftMarginUnit
'Stretch the device independent PrinterPaper-RightMarginUnit)
bitmap to the printer: 9400'Working Space on paper Ratio
If r <> 0 Then PrinterPaper YRatioToFormMain
'Enter the following three lines as I / Printer.TwipsPerPixelY'really
one, single line: PrinterPaper SpaceBetweenScreens
r = StretchDIBits(hDCDest...

...Next TabNumber
return in inserted the linenumber is Else
bigger. TabNumber = 0
End If
All the coordinates of the first
character are located
215
SUBSTITUTE SHEET (RULE 26)
NumberOfLettersUntilWrap If Counter > UBound(CharList)
Counter - FirstLetterNumOnLine I Then
...XRight = CharList(Counter).XLeft +
CharList(Counter).XLeft WidthOnPrinter(CurrentLetter)
End If
'check if the current character is
Counter = Counter + I over the print's area width
216
SUBSTITUTE SHEET (RULE 26)
If (CharList(Counter).XRight >
RightBorder) And (CurrentLetter <> TextLinesForPrinting(LineNumber).Te
Then xtString = StringUntilWrapPoint
I go backwards checking for the 'Update...

```

```

...means that 'In the opening position the
the line is very long and there is no 'Meft" is at the left of the
printing
choice area
'but to cut it in the middle of the 'The YTop, YBottom can also
"long word". be calculated
If Counter1 CharList(Counter2).XLeft
FirstLetterNumOnLine Then...tbIParametersForExternalApplications
= dbHypertext.OpenTable("Parameters if
for external Applications") Trim$(ExternalApplicationTable("Entr
y name in ini file for Parametr I ") &
tbIParametersForExternalApplications. <> "" Then
Index = "PrimaryKey"
219
SUBSTITUTE SHEET (RULE 26)
ApplicationVersion
Trim$(GetVersion(ExternalApplicatio fnnMain.lbiLinkToExternalApplicatio
nTable("Section name in ini file"))) n(ApplicationNumber
SetIniForApplication 1).LinkExecute "[Restore]"
ExternalApplicationTable("Section ProcessRun = False
name...I ") & the application"), CurDir$ & 'T')
Parameter I
DoEvents if
DoEvents Trim$(ExternalApplicationTable("Entr
Endlf y name in ini file for Parametr I ") &
<> "" Then
220
SUBSTITUTE SHEET (RULE 26)
ApplicationVersion n(EmptyLinkNumber).LinkTopic =
Trim$(GetVersion(ExternalApplicatio Left$(ExternalApplicationTable("Exe
nTable("Section name in ini file"))) File Name"),
SetIniForApplication Len(ExternalApplicationTable("Exe
ExternalApplicationTable...tblSlaves("Entry for Picture path")
EntryForAVIPath =
Load frmCommonList tblSlaves("Entry for AVI Path")
fimCommonList.Caption EntryForSoundPath =
"Select topic" tblSlaves("Entry for Sound Path")
223
SUBSTITUTE SHEET (RULE 26)
DoEvents
frmUserInfor-nation.txtLastName
tblUsers("Last Name") PleaseWaitMessage "Some files are
being repaired." & CR( & "It will take
frnnUserInfor-mation.txtFirstName a few minutes. Pleas...t.Update
i = I I
ParagraphOnScreenOrder = I I now must create the link
Do Until i > ParagraphCount between the screen and this paragraph
226
SUBSTITUTE SHEET (RULE 26)
I.AddNew If EndNodes(nodeC)
1("Parent screen ID") StartNodes(nodeC) Then
ParentScreenID nodeC nodeC - I
1("Paragraph Order Num on ignore this...Exit For developed and heavily
tested
End If 'in Access Basic (I find it much
Next i easier). This main routine is NOT

```

235

SUBSTITUTE ~~SHEET~~ (RULE 26)

' valid in Access basic. The not acceptable. My solution is as incompatibility has to do with the follows.

I structure of forms in...cResults If IsAWildCard Or IsAQuest
As Long Then

StartTime = Timer 'seconds

counter If IsAWildCard Then

cResults; = 0 TestWord =

Left\$(element, Len(element) - 1)

239

SUBSTITUTE ~~SHEET~~ (RULE 26)

End If I

If IsAQuest Then management overhead and size.

TestWord

Left\$(element, LocQuest - 1) first

End If check if too many

I ID"), t("Paragraph ID"),

AdjustedOccs = 0 t("location in paragraph"

1 t("Paragraph type")

For m = I To cMatchList AdjustedOccs

SUBSTITUTE ~~SHEET~~ (RULE 26)

I we have cut out all of the Select Case Asc(UCase\$(char))

possible selections Case FirstGoodCharacter To

cNumOccs = 0 LastGoodCharacter

Else ThisWord...Then

point, and we can record this entry NumINList = NurnfNList + I

Exit Do'move on rNList(NumINList) = CInt(w)

End If End If

247

SUBSTITUTE ~~SHEET~~ (RULE 26)

I For i = loc2 To Ioc2 + occs - I

End Sub If DataScreen(i) = DataScreen(loc1)

Then

Sub MakeRoomForData (NumOccs As If DataParaID(i...ShortProgressText End
If

Then I

s = LCase\$(subject) & " IN selected s = LCase\$(element) & appears &
paragraphs" CStr(occ) & s

n = fill

Else AddSearchProgressLine s

260

SUBSTITUTE ~~SHEET~~ (RULE 26)

End Sub 'ShowElem = ""

Result = NameElem2 &

Sub ShowNumberScreens (element As & NameElem I

String, occ As Long) Case "III

I ShowElem is &

'this routine is...Yes

Last Updated: 12/12/94 11:37:36 Record Count: 0

Columns

Name Type Size

Main Yes/No

Allow Zero Length: No

Attributes: Fixed Size

Collating Order: Unknown or Undefined
Column Hidden: No
Column Order: Default
Column Width: Default
Data Updatable: No
Format: Yes/No
Ordinal Position: 0
Required: No...

? show files;ds
File 635:Business Dateline(R) 1985-2009/Sep 14
(c) 2009 ProQuest Info&Learning
File 570:Gale Group MARS(R) 1984-2009/Aug 19
(c) 2009 Gale/Cengage
File 387:The Denver Post 1994-2009/Sep 11
(c) 2009 Denver Post
File 471:New York Times Fulltext 1980-2009/Sep 14
(c) 2009 The New York Times
File 492:Arizona Repub/Phoenix Gaz 19862002/Jan 06
(c) 2002 Phoenix Newspapers
File 494:St LouisPost-Dispatch 1988-2009/Jun 19
(c) 2009 St Louis Post-Dispatch
File 631:Boston Globe 1980-2009/Sep 14
(c) 2009 Boston Globe
File 633:Phil.Inquirer 1983-2009/Sep 14
(c) 2009 Philadelphia Newspapers Inc
File 638:Newsday/New York Newsday 1987-2009/Sep 13
(c) 2009 Newsday Inc.
File 640:San Francisco Chronicle 1988-2009/Sep 13
(c) 2009 Chronicle Publ. Co.
File 641:Rocky Mountain News Jun 1989-2009/Jan 16
(c) 2009 Scripps Howard News
File 702:Miami Herald 1983-2009/Sep 14
(c) 2009 The Miami Herald Publishing Co.
File 703:USA Today 1989-2009/Sep 11
(c) 2009 USA Today
File 704:(Portland)The Oregonian 1989-2009/Sep 13
(c) 2009 The Oregonian
File 713:Atlanta J/Const. 1989-2009/Mar 08
(c) 2009 Atlanta Newspapers
File 714:(Baltimore) The Sun 1990-2009/Sep 06
(c) 2009 Baltimore Sun
File 715:Christian Sci.Mon. 1989-2009/Jul 20
(c) 2009 Christian Science Monitor
File 725:(Cleveland)Plain Dealer Aug 1991-2009/Sep 12
(c) 2009 The Plain Dealer
File 735:St. Petersburg Times 1989- 2009/Sep 11
(c) 2009 St. Petersburg Times
File 477:Irish Times 1999-2009/Sep 14
(c) 2009 Irish Times
File 710:Times/Sun.Times(London) Jun 1988-2009/Sep 06
(c) 2009 Times Newspapers
File 711:Independent(London) Sep 1988-2006/Dec 12
(c) 2006 Newspaper Publ. PLC
File 756:Daily/Sunday Telegraph 2000-2009/Sep 14
(c) 2009 Telegraph Group
File 757:Mirror Publications/Independent Newspapers 2000-2009/Sep 14
(c) 2009

Set	Items	Description
S1	21	(PRINT() (DATA OR INFORMATION)) (8N) (FORMAT? OR ARRANG? OR C- ONFIGUR? OR ORGANIZ? OR ORGANIS? OR LAYOUT? ? OR (LAY OR LAID-) ()OUT OR STRUCTUR??? OR PLACING OR POSITION??? OR TEMPLATE)
S2	3270	(PAPER OR SHEET) (3W) (SIZE OR DIMENSION? ? OR LENGTH OR WID- TH OR AREA OR CONFIGURATION)

S3	3037	(AD OR ADS OR ADVERTISEMENT OR PROMOTION OR COUPON OR SLOG- AN) (3W) (SIZE OR DIMENSION? ? OR LENGTH OR WIDTH OR AREA OR CO- NFIGURATION)
S4	13997	(PRINT OR PRINTING OR PRINTS OR OUTPUT?) (6N) (COST OR FEE OR PRICE)
S5	103213	BAR()COD? OR BARCOD? OR INDICIUM OR INDICATOR
S6	0	S1 AND S2 AND S3 AND S4 AND S5
S7	0	S1 AND S2 AND S3 AND S4
S8	0	S1 AND S2 AND S3
S9	0	S1 AND S2
S10	0	S1(60N)S2

IV. Text Search Results from Dialog

A. Abstract Databases

? show files;ds
File 350:Derwent WPIX 1963-2009/UD=200958
(c) 2009 Thomson Reuters
File 344:Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office
File 347:JAPIO Dec 1976-2009/May(Updated 090903)
(c) 2009 JPO & JAPIO
File 371:French Patents 1961-2002/BOPI 200209
(c) 2002 INPI. All rts. reserv.
File 2:INSPEC 1898-2009/Sep W1
(c) 2009 The IET
File 35:Dissertation Abs Online 1861-2009/Aug
(c) 2009 ProQuest Info&Learning
File 65:Inside Conferences 1993-2009/Sep 14
(c) 2009 BLDSC all rts. reserv.
File 99:Wilson Appl. Sci & Tech Abs 1983-2009/Aug
(c) 2009 The HW Wilson Co.
File 256:TecTrends 1982-2009/Sep W2
(c) 2009 Info.Sources Inc. All rights res.
File 474:New York Times Abs 1969-2009/Sep 14
(c) 2009 The New York Times
File 475:Wall Street Journal Abs 1973-2009/Sep 14
(c) 2009 The New York Times
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 Gale/Cengage
File 23:CSA Technology Research Database 1963-2009/Aug
(c) 2009 CSA.
File 56:Computer and Information Systems Abstracts 1966-2009/Aug
(c) 2009 CSA.

Set	Items	Description
S1	2421	(PRINT() (DATA OR INFORMATION)) (8N) (FORMAT? OR ARRANG? OR C- ONFIGUR? OR ORGANIZ? OR ORGANIS? OR LAYOUT? ? OR (LAY OR LAID-) () OUT OR STRUCTUR??? OR PLACING OR POSITION??? OR TEMPLATE)
S2	62185	(PAPER OR SHEET) (3W) (SIZE OR DIMENSION? ? OR LENGTH OR WID- TH OR AREA OR CONFIGURATION)
S3	2437	(AD OR ADS OR ADVERTISEMENT OR PROMOTION OR COUPON OR SLOG- AN) (3W) (SIZE OR DIMENSION? ? OR LENGTH OR WIDTH OR AREA OR CO- NFIGURATION)
S4	30808	(PRINT OR PRINTING OR PRINTS OR OUTPUT?) (6N) (COST OR FEE OR PRICE)
S5	342989	BAR() COD? OR BARCOD? OR INDICIUM OR INDICATOR
S6	0	S1 AND S2 AND S3 AND S4 AND S5
S7	0	S1 AND S2 AND S3 AND S4
S8	0	S1 AND S2 AND S3
S9	67	S1 AND S2
S10	67	S9 FROM 350,344,347,371
S11	37	S10 NOT AY>1999

? t11/3,k/all

11/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2009 Thomson Reuters. All rts. reserv.

0017006084 - Drawing available
WPI ACC NO: 2007-721144/200768
Related WPI Acc No: 1999-182660
XRAM Acc No: C2007-252936
XRPX Acc No: N2007-568261

Printing device e.g. printer, controlling device, has display unit e.g. cathode ray tube display, for deciding positions at which binding is performed, in dependence upon set ~~paper size~~, where unit displays positions as candidates

Patent Assignee: CANON KK (CANO)

Inventor: HAYASHI E

Patent Family (2 patents, 9 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1811430	A2	20070725	EP 1998307274	A	19980909	200768 B
			EP 20077756	A	19980909	
EP 1811430	A3	20090819	EP 1998307274	A	19980909	200955 E
			EP 20077756	A	19980909	

Priority Applications (no., kind, date): JP 1997247213 A 19970911

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1811430	A2	EN	36	23	Division of application EP 1998307274

Division of patent EP 902391

Regional Designated States,Original: AL DE FR GB LT LV MK RO SI

EP 1811430	A3	EN	Division of application EP 1998307274
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Division of patent EP 902391

Regional Designated States,Original: AL DE FR GB LT LV MK RO SI

...g. printer, controlling device, has display unit e.g. cathode ray tube display, for deciding positions at which binding is performed, in dependence upon set ~~paper size~~, where unit displays positions as candidates

Alerting Abstract ...NOVELTY - The apparatus has size setting unit for setting ~~paper size~~, and a display unit e.g. cathode ray tube (CRT) display, for deciding positions at which binding can be performed, in dependence upon the set ~~paper size~~, where the display unit displays the positions as candidates. A selecting unit selects a desired position from the candidates displayed, and a transmitting unit transmits ...

Original Publication Data by Authority

Argentina

Assignee name & address:

Original Abstracts:

...be printed on is set when the user designates a stapling position,

positions at which stapling is possible are decided in dependence upon the set ~~paper size~~ and these positions are displayed as candidates for selection. The user selects a desired position from among the candidates. The selected position is displayed together with an image of the paper shape indicating the page ~~layout~~ of the paper, the orientation of ~~print data~~ and stapling orientation. Lastly, the candidates for selection are displayed on the image. The stapling position thus set is sent to the printer when printing...

...be printed on is set when the user designates a stapling position, positions at which stapling is possible are decided in dependence upon the set ~~paper size~~ and these positions are displayed as candidates for selection. The user selects a desired position from among the candidates. The selected position is displayed together with an image of the paper shape indicating the page ~~layout~~ of the paper, the orientation of ~~print data~~ and stapling orientation. Lastly, the candidates for selection are displayed on the image. The stapling position thus set is sent to the printer when printing...

Claims:

...for controlling a printing device having a function for binding paper output by the printing device, **characterized by** having: size setting means (S401) for setting ~~paper size~~; display means (S402) for deciding, in dependence upon the set ~~paper size~~, positions at which binding can be performed, and displaying these positions as candidates; selecting means (S403) for selecting a desired position from the candidates displayed...

11/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2009 Thomson Reuters. All rts. reserv.

0009868985 - Drawing available
WPI ACC NO: 2000-164862/200015
XRPX Acc No: N2000-123360
Color copier with barcode printer - prints information pertaining to number of copies taken, and printing ~~paper size~~ on printing medium, after completion of image formation
Patent Assignee: RICOH KK (RICO)
Inventor: INOUE M; KOSUGA Y; SUGIURA N; TAMIYA Y
Patent Family (1 patents, 1 countries)
Patent Application

Number	Kind	Date	Number	Kind	Date	Update
JP 2000019910	A	20000121	JP 1998199556	A	19980630	200015 B

Priority Applications (no., kind, date): JP 1998199556 A 19980630

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
JP 2000019910	A	JA	14	10		

...prints information pertaining to number of copies taken, and printing ~~paper size~~ on printing medium, after completion of image formation

Alerting Abstract ...ADVANTAGE - Enables user to pay the fee accurately

by the print information on printing medium. Image formation result in barcode display is easily read with POS register by service and sales manufacturers. Visual observation of image formation information is obtained even through...

Original Publication Data by Authority

Argentina

11/3,K/3 (Item 3 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
 (c) 2009 Thomson Reuters. All rts. reserv.

0009333367 - Drawing available

WPI ACC NO: 1999-265586/199923

XRPX Acc No: N1999-198010

Image printing device comprising processor unit converting image to print data and setting paper cutter to cut without margin

Patent Assignee: MITSUBISHI DENKI KK (MITQ); MITSUBISHI ELECTRIC CORP (MITQ)

Inventor: KANO K; KAZUTOMO T; KIMIO K; SHOJI Y; TAWA K; TOUGE K; YASUI S

Patent Family (10 patents, 29 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
EP 913265	A2	19990506	EP 1998304476	A	19980605	199923 B
JP 11129562	A	19990518	JP 1997298319	A	19971030	199930 E
CN 1216271	A	19990512	CN 1998115299	A	19980629	199937 E
KR 1999036587	A	19990525	KR 199832121	A	19980807	200032 E
US 6281981	B1	20010828	US 1998104421	A	19980625	200151 E
KR 295207	B	20010712	KR 199832121	A	19980807	200226 E
EP 913265	B1	20021002	EP 1998304476	A	19980605	200272 E
DE 69808404	E	20021107	DE 69808404	A	19980605	200281 E
			EP 1998304476	A	19980605	
CN 1142862	C	20040324	CN 1998115299	A	19980629	200609 E
JP 3756302	B2	20060315	JP 1997298319	A	19971030	200620 E

Priority Applications (no., kind, date): JP 1997298319 A 19971030; EP 1998304476 A 19980605

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 913265	A2	EN	22	20	
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 11129562	A	JA	10		
KR 1999036587	A	KO		20	
KR 295207	B	KO			Previously issued patent KR 99036587
EP 913265	B1	EN			
Regional Designated States,Original: DE FR GB NL					
DE 69808404	E	DE			Application EP 1998304476
					Based on OPI patent EP 913265
JP 3756302	B2	JA	15		Previously issued patent JP 11129562

Alerting Abstract ...central processor unit (10A) is connected to a cutting position determination device (14) for determining a cutting position of printing paper and has a cutting position automatic calculation function based on print information stored in a mechanical controller (11). The image signal stored in a frame memory (21) is converted by a transfer circuit (23) into print data...

Original Publication Data by Authority

Argentina

Assignee name & address:

Original Abstracts:

...printing start position to a printing end position in the longitudinal direction of printing paper without leaving any margin in the lateral direction of the paper, the width of a heater line of a thermal head (1a), corresponding to the lateral direction of the printing paper, is set to be not less than the width of the printing paper. Considering a shift length to be made by a cutter (6) in cutting, a CPU (10A) determines a first cutting position that is on the side of the print area with respect to...

...cutter (6) which will cut the printing paper at those positions. This allows an image printing apparatus to obtain cut printing paper which is entirely an effective print area without any margin...

...printing start position to a printing end position in the longitudinal direction of printing paper without leaving any margin in the lateral direction of the paper, the width of a heater line of a thermal head (1a), corresponding to the lateral direction of the printing paper, is set to be not less than the width of the printing paper. Considering a shift length to be made by a cutter (6) in cutting, a CPU (10A) determines a first cutting position that is on the side of the print area with respect to the printing start position of the...

...which will cut the printing paper at those positions. This allows an image printing apparatus to obtain cut printing paper which is entirely an effective print area without any margin.

Claims:

...said image signal into data for printing;</br> printing means <1a, 2, 4, 5, 201, 202> for printing at least one printing image longitudinally on printing paper of a predetermined width to obtain a print area, on the basis of said data for printing;</br> control means <10A, 11, 13, 14> for giving a cutting command which indicates a cutting position of said printing paper; and</br> cutting means <4 to 6> for laterally cutting said printing paper on the basis of said cutting command, wherein a print width <W3> by said printing means, corresponding to a lateral direction of said printing paper, is set to be not less than said predetermined width <W2> of said printing paper, and wherein said control means determines a first cutting position that is on the side of said print area with...

...printing paper on the basis of said cutting command; characterised in that said control means <10A, 11, 13, 14> determines a first cutting position that is within said print area and a final cutting

position that is within said print area, and gives said cutting command which indicates said first and final cutting positions to said cutting means <4 to 6...

...An image printing apparatus comprising: supply means for supplying printing paper of a predetermined width; data conversion means for receiving an image signal from the outside and converting said image signal into data for printing; printing means for printing at ...to obtain a print area, on the basis of said data for printing; control means for giving a cutting command which indicates a cutting position of said printing paper and directs a cutting means to cut said printing paper at said cutting position; and said cutting means for laterally cutting said printing paper as directed...

...determines a first cutting position that is shifted to the side of said print area with respect to a printing start position of said print area and a final cutting position that is shifted to the side of said print area with respect to a printing end position of said print...

11/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2009 Thomson Reuters. All rts. reserv.

0009257279 - Drawing available
WPI ACC NO: 1999-185307/199916
XRPX Acc No: N1999-136252
Print data emulation judgment system in computer connected printer - judges print data from host to have different emulation mode when there is no paper size or paper feed mouth size designation information from host and cancels print data
Patent Assignee: FUJITSU LTD (FUIT)
Inventor: TAKAHASHI Y
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 11034439	A	19990209	JP 1997198275	A	19970724	199916 B

Priority Applications (no., kind, date): JP 1997198275 A 19970724

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 11034439	A	JA	12	5	

...judges print data from host to have different emulation mode when there is no paper size or paper feed mouth size designation information from host and cancels print data

Alerting Abstract ...NOVELTY - Data analysis unit (9) splits data from host into print and format data. Presence of paper size or paper feed mouth size designation information in format data is determined. Emulation judgment unit (10) judges print data to have emulation different from set emulation mode when there is no designation data after which print data is canceled. DETAILED DESCRIPTION - The difference in...

Original Publication Data by Authority

Argentina

11/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0009144773 - Drawing available
WPI ACC NO: 1999-066295/199906
XRPX Acc No: N1999-049556
Image processing system - prints image information stored in memory,
according to set mode information
Patent Assignee: MINOLTA CAMERA KK (MIOC); MINOLTA CO LTD (MIOC)
Inventor: KUROZASA Y
Patent Family (2 patents, 2 countries)
Patent Application
Number Kind Date Number Kind Date Update
JP 10312251 A 19981124 JP 199857381 A 19980224 199906 B
US 6614546 B1 20030902 US 199837600 A 19980310 200359 E

Priority Applications (no., kind, date): JP 199770873 A 19970310

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
JP 10312251	A	JA	21	19		

Original Publication Data by Authority
Argentina

Assignee name & address:

Original Abstracts:

...used for the printer. Before the printer starts printing in accordance with the print request, print mode items such as the size of a print sheet, the number of pages and a paper tray to be used, set by the printer driver, can be changed. Additional print mode setting characteristics of...

Claims:

...correspondence with each other; an external operation unit inputting additional mode-information that cannot be set with the mode-information setting unit; and an image formation unit forming an image on a print sheet, based on the image information, the mode information stored in said memory, and the additional mode information.

11/3,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0009124001 - Drawing available
WPI ACC NO: 1999-044268/199904
XRPX Acc No: N1999-032302
Print head position adjustment device for printer - has controller which adjusts print head to compensate for alignment of recording paper for image formation, based on sensor signal generated by detection of open position

of guide panel

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)

Inventor: MYUNG H; MYUNG H S

Patent Family (3 patents, 2 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 5842801	A	19981201	US 1997926235	A	19970910	199904 B
KR 1998020608	A	19980625	KR 199639127	A	19960910	199924 E
KR 208139	B1	19990715	KR 199639127	A	19960910	200066 E

Priority Applications (no., kind, date): KR 199639127 A 19960910

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5842801	A	EN	10	8	
KR 1998020608	A	KO		9	

Alerting Abstract ...printer through a guide (14). A sensor generates a signal on detection of open position of the guide panel, activating a controller to adjust the print data stored in printer memory. The controller adjusts the position of print head to compensate for alignment of recording paper in order to form images represented by adjusted print data...

Original Publication Data by Authority

Argentina

Assignee name & address:

Original Abstracts:

...a device for adjusting the printing position of a printer head. When a recordable medium having a greater thickness than that of a standard cut sheet of letter size paper is inserted in an electrophotographic apparatus, it is often necessary to increase the distance between the top recordable medium in the paper supply tray and the paper input...

Claims:

...to an open position of the guide panel and generating a signal corresponding to the detection of said open position; said controller of the printer responding to said signal and adjusting a plurality of print data stored in said memory of the printer, and adjusting the formation of a plurality of images represented by said print data upon a printable medium by automatically adjusting the position of the printer head to compensate for the alignment of said printable medium while said guide panel is in said open position.

11/3,K/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0008746514 - Drawing available
WPI ACC NO: 1998-288916/199826
XRPX Acc No: N1998-227221
Metering system for postage security device - records information relative

to characteristics of printing mechanism such that recorded information based indicium is on mail piece, recorded information is recorded in indicium or in vicinity of indicium

Patent Assignee: PITNEY BOWES INC (PITB)

Inventor: SANSONE R P

Patent Family (4 patents, 26 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
EP 845759	A2	19980603	EP 1997120449	A	19971121	199826 B
CA 2221540	A	19980522	CA 2221540	A	19971119	199838 E
US 6574000	B1	20030603	US 1996753236	A	19961122	200339 E
CA 2221540	C	20031007	CA 2221540	A	19971119	200367 E

Priority Applications (no., kind, date): US 1996753236 A 19961122

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 845759	A2	EN	17	9	

Regional Designated States,Original: AL AT BE CH DE DK ES FI FR GB GR IE
IT LI LT LU LV MC MK NL PT RO SE SI

CA 2221540	A	EN
CA 2221540	C	EN

Original Publication Data by Authority

Argentina

Assignee name & address:

Original Abstracts:

...the indicium affixed to a mail piece (12). The system will first capture the postal customer's or mailers printer type and configuration setting information, paper, ink, or toner combination and then use the foregoing information to enable printing of the Information - Based Indicium, if the active printer (32) going to print...

...or remote) "Information - Based Indicia Approved Printer's List". Then the system will add this same printer information to the USPS defined Information - Based Indicium print field format so as to provide evidence that an approved printer was used. The foregoing printer information may be printed in a coded form on the Information - Based Indicium to automate...

...or remote) "Information-Based Indicia Approved Printer's List". Then the system will add this same printer information to the USPS defined Information-Based Indicia print field format so as to provide evidence that an approved printer was used. The foregoing printer information may be printed in a coded form on the Information...

Claims:

11/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0008034577 - Drawing available
WPI ACC NO: 1997-128384/199712

XRPX Acc No: N1997-106344

Image forming appts e.g. copier, printer, facsimile - has paper selection unit which selects required type of printing paper and size of input paper detected by size detector

Patent Assignee: CANON KK (CANO)

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
JP 9012166	A	19970114	JP 1995165265	A	19950630	199712 B

Priority Applications (no., kind, date): JP 1995165265 A 19950630

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
JP 9012166	A	JA	13	11		

...has paper selection unit which selects required type of printing paper and size of input paper detected by size detector

Alerting Abstract ...is stored in a second stage cassette (205). The size of the input paper is detected by a size detector. A CPU controls the character positions of print information.

...

...ADVANTAGE - Offers print of required choice in paper size and colour.

Original Publication Data by Authority

Argentina

11/3,K/9 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0006658523 - Drawing available

WPI ACC NO: 1994-036760/199405

XRPX Acc No: N1994-028602

Recording head for facsimile - records image at correct position by controlling recording unit by detecting position of recording medium using communication control unit

Patent Assignee: CANON KK (CANO)

Inventor: TACHIBANA S

Patent Family (6 patents, 4 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 581554	A1	19940202	EP 1993305874	A	19930726	199405 B
JP 6091999	A	19940405	JP 1993170027	A	19930709	199418 E
US 5488407	A	19960130	US 199397227	A	19930727	199611 E
			US 1994212649	A	19940314	
			US 1994320553	A	19941011	
			US 1995419529	A	19950410	
EP 581554	B1	19990217	EP 1993305874	A	19930726	199912 E
DE 69323510	E	19990325	DE 69323510	A	19930726	199918 E

EP 1993305874 A 19930726
 JP 3441767 B2 20030902 JP 1993170027 A 19930709 200358 E

Priority Applications (no., kind, date): JP 1992201159 A 19920728; JP 1993170027 A 19930709

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 581554	A1	EN	39	26	
Regional Designated States, Original: DE FR GB					
JP 6091999	A	JA	34		
US 5488407	A	EN	38	26	Continuation of application US 199397227
1994212649					Continuation of application US
1994320553					Continuation of application US
EP 581554	B1	EN			
Regional Designated States, Original: DE FR GB					
DE 69323510	E	DE			Application EP 1993305874
					Based on OPI patent EP 581554
JP 3441767	B2	JA	35		Previously issued patent JP 06091999

Original Publication Data by Authority

Argentina

Assignee name & address:

Original Abstracts:

...a different direction than a direction of arrangement to make record scan and a recording sheet is fed by a distance corresponding to a recording width of the recording head for each scan. The record scan (main scan) and the sheet feed (sub-scan) are repeated to record received image data...

Claims:

...print data; recording means for recording an image on a recording medium in accordance with the print data generated by said print data generation means; feed means for feeding the recording medium to a recording position of said recording means; second control means for controlling operations of said recording means and said feed means; detection means for detecting the recording medium...

...count means (7) is arranged to count the feed amount of the recording medium (16) from an initial printing position; said first control means is arranged to control said print data generation means (1) so as to record remaining print data on a remaining area of the recording medium (16) when it is determined from the count value counted by said count means (7) at the detection by said detection means (13) of a trailing edge of the recording medium (16), that the remaining print data can be recorded on...

...recording medium in accordance with the print data generated by said print data generation means; feed means for feeding the recording medium to a recording position of said recording means; second control means for controlling operations of said recording means and said feed means; detection means for detecting the recording

medium upstream of the recording position along the feed direction of ...recording medium; and count means for counting a feed amount of the recording medium by said feed means; said first control means determining whether remaining print data can be printed or not at the detection of a trailing edge of the recording medium by said detection means based on the count of said count means and outputting a...

11/3,K/10 (Item 10 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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0006476488 - Drawing available
 WPI ACC NO: 1993-282055/199336
 XRPX Acc No: N1993-216717
 Strip chart recorder for printing medical information signals from monitor
 - has printer which includes thermal array printing head responsive to medical information for printing information regarding status of patient
 Patent Assignee: SPACELABS MEDICAL INC (SPAC-N)
 Inventor: VANCE G C
 Patent Family (5 patents, 7 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
EP 559194	A1	19930908	EP 1993103484	A	19930304	199336 B
CA 2091071	A	19930906	CA 2091071	A	19930305	199348 E
US 5361085	A	19941101	US 1992846088	A	19920305	199443 E
EP 559194	B1	19960619	EP 1993103484	A	19930304	199629 E
DE 69303199	E	19960725	DE 69303199	A	19930304	199635 E
			EP 1993103484	A	19930304	

Priority Applications (no., kind, date): US 1992846088 A 19920305

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 559194	A1	EN	14	3	
Regional Designated States,Original: CH DE FR GB IT LI					
CA 2091071	A	EN			
US 5361085	A	EN	11	3	
EP 559194	B1	EN	19	3	
Regional Designated States,Original: CH DE FR GB IT LI					
DE 69303199	E	DE			Application EP 1993103484
					Based on OPI patent EP 559194

Alerting Abstract ...ADVANTAGE - Medical monitor is capable of printing on paper of various widths and of rapidly changing from one paper width to another.

Original Publication Data by Authority

Argentina

Assignee name & address:

Claims:

...mounted therein for providing a paper tray signal and having a drive gear mounted therein for providing rotational energy;</br> first paper tray means for dispensing paper of a first width upon which the

information indicating the status of the patient will be printed, said first paper tray means being constructed to be inserted in said receptacle of said printer means, said first paper tray means including a first guide insert constructed to guide the paper of a first width past said thermal array printing head, said first paper tray means further including a first roller and positioning means for positioning said first roller in...

...first gear constructed to engage said drive gear of said printer means for receiving the rotational energy to rotate said first roller to propel the paper of a first width past said thermal printing means, said first paper tray means being further constructed to engage said switch of said printer means when said first paper...

...processor being responsive to said first reformat signal to provide said medical information signals in a first format; and</br> second paper tray means for dispensing paper of a second width upon which the information indicating the status of the patient will be printed, said second paper tray means also being constructed to be inserted in said receptacle of said printer means, said second paper tray means including a second guide insert constructed to guide the paper of a second width past said thermal array printing head, said second paper tray means further including a second roller having a length greater than that of said first...

...second gear constructed to engage said drive gear of said printer means for receiving the rotational energy to rotate said second roller to propel the paper of a second width past said thermal printing means, said second paper tray means being further constructed to so that said second paper tray means does not engage said...monitor being constructed to provide the medical information signals in a first format and a second format said apparatus comprising:</br> paper tray means for dispensing paper of a predetermined width upon which the information indicating the status of the patient will be printed, said paper tray means including indicator means for indicating a predetermined width...

...predetermined width of paper dispensed by said paper tray means, said printer means being responsive to said sensor means and said medical information signals to print information corresponding to said medical information signals in a format determined responsive to said sensor means, said paper tray means further including engagement means constructed to mate with the paper of the predetermined width to apply a force to the paper so that the paper engages said printer means and so that a predetermined amount of pressure is created...

...monitor being constructed to provide the medical information signals in a first format and a second format, said apparatus comprising: paper tray means for dispensing paper of a predetermined width upon which the information indicating the status of the patient will be printed, said paper tray means including indicator means for indicating the predetermined width...

...requesting the medical information signals in a predetermined format and being responsive to medical information signals provided in the predetermined format for printing on the paper of the predetermined width, said paper tray means further including engagement means

constructed to mate with the paper of the predetermined width
to apply a force to the paper so that the paper engages said printer means
and so that a predetermined amount of pressure is created...

11/3,K/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0005183587 - Drawing available
WPI ACC NO: 1990-174348/199023
XRPX Acc No: N1990-135280; N1991-062525
Data processing system for laser printer - has paper feeding cassette, and
device receive data and commands to print data in specified
format

Patent Assignee: TOSHIBA KK (TOKE)

Inventor: HINO R; OSAWA K

Patent Family (2 patents, 2 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
JP 2113322	A	19900425	JP 1988267503	A	19881024	199023 B
US 4998216	A	19910305	US 1989413394	A	19890927	199112 E

Priority Applications (no., kind, date): JP 1988267503 A 19881024

...has paper feeding cassette, and device receive data and commands to
print data in specified format

Equivalent Alerting Abstract ...printer includes a cassette for automatic
paper feeding. The laser printer receives data and commands to print the
data in a specified format on a paper of a size selected by the
host machine...

Original Publication Data by Authority

Argentina

Assignee name & address:

Original Abstracts:

...printer includes a cassette for automatic paper feeding. The laser
printer receives data and commands to print the data in a specified format
on a paper of a size selected by the host machine. Furthermore,
the laser printer includes a manual feeding unit to feed paper to an image
forming position. The manual feeding...

Claims:

11/3,K/12 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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09599912 **Image available**
DATA PROCESSOR, STOREFRONT TERMINAL THEREWITH AND DATA PROCESSING PROGRAM

PUB. NO.: 2008-305278 [JP 2008305278 A]
PUBLISHED: December 18, 2008 (20081218)

INVENTOR(s): SOEMATSU MAKOTO
NISHIBAYASHI SHOJI
APPLICANT(s): NORITSU KOKI CO LTD
APPL. NO.: 2007-153374 [JP 2007153374]
FILED: June 08, 2007 (20070608)

ABSTRACT

... BE SOLVED: To provide a data processor, a storefront terminal therewith and a data processing program, allowing output of a desired area to a prescribed ~~paper size~~ even if data are Web page data including image data.

SOLUTION: This data processor 1 has an extraction part 25, an arrangement determination part 26...

...area based on the number of pieces of the image data and the characters. The conversion part 27 converts the Web log data WD into ~~print data~~ PD according to the reconstructed ~~arrangement~~ relation.

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11/3,K/13 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
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09594268 **Image available**
PRINT CONTROL DEVICE AND PROGRAM

PUB. NO.: 2008-299634 [JP 2008299634 A]
PUBLISHED: December 11, 2008 (20081211)
INVENTOR(s): ASAI DAISUKE
APPLICANT(s): BROTHER IND LTD
APPL. NO.: 2007-145525 [JP 2007145525]
FILED: May 31, 2007 (20070531)

ABSTRACT

...job control information to a printing device with the same feeling as in output of printer control information when executing printing, and a program for ~~configuring~~ the print control device.

SOLUTION: In general print data, ~~paper size~~, copy number or the like is set in print setting as shown in (A). When a PJL command for acquiring a serial number is transmitted...

11/3,K/14 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
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09563952 **Image available**
PRINT CONTROL DEVICE, PRINTER, AND PRINT CONTROL PROGRAM

PUB. NO.: 2008-269318 [JP 2008269318 A]
PUBLISHED: November 06, 2008 (20081106)
INVENTOR(s): MORI HIROMI

APPLICANT(s): BROTHER IND LTD
APPL. NO.: 2007-111844 [JP 2007111844]
FILED: April 20, 2007 (20070420)

ABSTRACT

... In the print control device 40 having a print data generation means 50 for generating print data from receiving data on a job bases, the print data generation means 50 includes a layout information generation means which generates layout information for regulating a layout in a printable range 81 based on the number of pages and paper size of the job; and an arrangement means which arranges each page of the job on one print screen according to the paper size to be overlapped while reducing the size thereof based on the layout information generated by the layout information generation means to thereby generate cascade print data.

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11/3,K/15 (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO
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09529182 **Image available**
PRINT CONTROLLER AND CONTROL METHOD THEREOF

PUB. NO.: 2008-234548 [JP 2008234548 A]
PUBLISHED: October 02, 2008 (20081002)
INVENTOR(s): KURATA YASUO
APPLICANT(s): CANON INC
APPL. NO.: 2007-076403 [JP 200776403]
FILED: March 23, 2007 (20070323)

ABSTRACT

... print controller capable of switching output layout according to the number of pages of printing data stored in a hot holder and simply printing different layouts.

SOLUTION: The print data is stored in the hot holder as a storage area for storing the print data, storage of the print data in the hot holder is...

... of printed pages included in the print data is detected. When the detected number of pages is one page, an output layout according to output sheet width is generated. When the detected number of pages is 2 pages or more, an output layout by arranging the respective pages is generated and the print data is registered as a job of print output.

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11/3,K/16 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
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09411781 **Image available**

PRINTING SYSTEM

PUB. NO.: 2008-117146 [JP 2008117146 A]
PUBLISHED: May 22, 2008 (20080522)
INVENTOR(s): UEMURA ATSUSHI
APPLICANT(s): SHARP CORP
APPL. NO.: 2006-299452 [JP 2006299452]
FILED: November 02, 2006 (20061102)

ABSTRACT

... of a cover/spine cover/back cover according to the number of recording sheets.

SOLUTION: In this printing system generating print data of a cover sheet of a prescribed size to print document data and performing case bookbinding printing, the print areas of the cover and the back cover, and a spine cover width are...

...of the recording sheets to be bound, the print document data of them are enlarged or reduced according to the calculated print areas and are laid out, and the print data of the cover sheet are generated. Thereby, the casing printing can be performed though a user does not adjust the layout to a minute portion...

11/3,K/17 (Item 6 from file: 347)
DIALOG(R)File 347:JAPIO
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09407707 **Image available**
PRINTING SYSTEM

PUB. NO.: 2008-113072 [JP 2008113072 A]
PUBLISHED: May 15, 2008 (20080515)
INVENTOR(s): SONEOKA HIROSHI
APPLICANT(s): MURATA MACH LTD
APPL. NO.: 2006-293106 [JP 2006293106]
FILED: October 27, 2006 (20061027)

ABSTRACT

PROBLEM TO BE SOLVED: To provide a printing system enabling a user to easily and surely perform an assorting operation of printed recording sheets of paper without enlarging a configuration.

SOLUTION: In printing print data configured per page, partition data configured of reduced images obtained by reducing each of pages of the print data are formed, and the print data and the partition data are printed...

11/3,K/18 (Item 7 from file: 347)
DIALOG(R)File 347:JAPIO
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09310198 **Image available**

PRINTING CONTROL DEVICE, PRINTING CONTROL METHOD, PROGRAM AND RECORDING MEDIUM

PUB. NO.: 2008-015563 [JP 2008015563 A]
PUBLISHED: January 24, 2008 (20080124)
INVENTOR(s): IZAWA YUJI
APPLICANT(s): CANON SYSTEM SOLUTIONS INC
APPL. NO.: 2006-182758 [JP 2006182758]
FILED: June 30, 2006 (20060630)

ABSTRACT

...different in size and orientation are mixed.

SOLUTION: A de-spooler 506 in an internal spool processing part 501 of a printer driver 203 calculates layout pattern based on each logical page information of print data, and the layout count and output paper size in print setting information, and generates print data based on the calculated layout pattern.

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11/3,K/19 (Item 8 from file: 347)
DIALOG(R)File 347:JAPIO
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09077950 **Image available**
PRINTER

PUB. NO.: 2007-118210 [JP 2007118210 A]
PUBLISHED: May 17, 2007 (20070517)
INVENTOR(s): HAYASHI KATSUMUNE
APPLICANT(s): TOSHIBA TEC CORP
APPL. NO.: 2005-309480 [JP 2005309480]
FILED: October 25, 2005 (20051025)

ABSTRACT

...print format.

SOLUTION: The printer comprises: a guide mechanism 31 for regulating the movement of a roll sheet contained in a hopper 3 in the paper width direction; and a section 46 for judging the paper width of the roll sheet movement of which is regulated in the paper width direction. A print format corresponding to the paper width thus judged is then selected, and printing is made, based on print data according to the selected print format.

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11/3,K/20 (Item 9 from file: 347)
DIALOG(R)File 347:JAPIO
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08753134 **Image available**
PRINTER DRIVER, PRINTER SYSTEM, PROGRAM AND RECORDING MEDIUM

PUB. NO.: 2006-146494 [JP 2006146494 A]
PUBLISHED: June 08, 2006 (20060608)
INVENTOR(s): OTA ATSUSHI
APPLICANT(s): SHARP CORP
APPL. NO.: 2004-334653 [JP 2004334653]
FILED: November 18, 2004 (20041118)

ABSTRACT

... page from a document across a plurality of pages. A print data compounding means 306b compounds the print data for each page generated by the print data generating means 306a based on the inputted page arrangement information of the document. A print data enlarging means 306c enlarges composite print data compounded by the print data compounding means 306b based on inputted magnification information. A print data dividing means 306d divides the composite print data enlarged by the print data enlarging means 306c based on inputted print sheet size information. A print data transferring means 306e transmits the print data divided by the print data dividing means 306d through a communication part 304 to...

11/3,K/21 (Item 10 from file: 347)
DIALOG(R)File 347:JAPIO
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08506398 **Image available**
PRINTER, PRINT CONTROL METHOD, STORAGE MEDIUM STORING COMPUTER READABLE PROGRAM, AND PROGRAM

PUB. NO.: 2005-254658 [JP 2005254658 A]
PUBLISHED: September 22, 2005 (20050922)
INVENTOR(s): KURIMOTO MASAMIZU
APPLICANT(s): CANON INC
APPL. NO.: 2004-070401 [JP 200470401]
FILED: March 12, 2004 (20040312)

ABSTRACT

... To obtain a printer in which processing of not yet processed print information on a mismatching page is discarded upon occurrence of mismatch between the sheet size of a page under printing and the sheet size of a sheet being fed to an engine section and developed print information can be processed from the head position of next page.

SOLUTION: When a print section interface control section 1100f detects mismatch between the sheet size of a page under printing and the sheet size of a sheet being fed to an engine section, a forced discard mode is set at a data decompression section 1100e such that the print information reading position of each page being read out from an RAM 1102 storing compressed print information for a plurality of images is set at the head position...

11/3,K/22 (Item 11 from file: 347)
DIALOG(R)File 347:JAPIO

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08433986 **Image available**

PRINTER DRIVER, COMPUTER STORING PRINTER DRIVER, AND PRINT SYSTEM

PUB. NO.: 2005-182246 [JP 2005182246 A]
PUBLISHED: July 07, 2005 (20050707)
INVENTOR(s): WAKUMOTO HIDEJI
APPLICANT(s): SEIKO EPSON CORP
APPL. NO.: 2003-419099 [JP 2003419099]
FILED: December 17, 2003 (20031217)

ABSTRACT

PROBLEM TO BE SOLVED: To provide a print system for reducing the operation load of a user.

SOLUTION: A printer driver part 140 is configured to make a computer execute processing to output print data based on an object to be printed to a printer 200, and a host 100 is made to execute processing to acquire a printable sheet size from the printer 200 and processing to generate print data so that the object to be printed can fall into the sheet size.

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08289982 **Image available**

OVERWRITABLE RECEIPT ISSUING DEVICE AND SALES MANAGEMENT DEVICE

PUB. NO.: 2005-038242 [JP 2005038242 A]
PUBLISHED: February 10, 2005 (20050210)
INVENTOR(s): KIYOHARA TAKAHIRO
 KOBAYASHI YOSUKE
APPLICANT(s): OMRON CORP
 NCR JAPAN LTD
APPL. NO.: 2003-275385 [JP 2003275385]
FILED: July 16, 2003 (20030716)

ABSTRACT

... part which stores a plurality of receipt print formats corresponding to the merchandise information, a receipt print format judging part which selects the receipt print format based on the merchandise information, a print data preparing part which prepares print data having an overwritable signature column based on the receipt format, a printing part which prints the print data on an overwritable receipt sheet, a control part which controls the receipt issue based on the selected receipt print format and a cutting part which cuts the receipt sheet to a predetermined length.

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11/3,K/24 (Item 13 from file: 347)
DIALOG(R)File 347:JAPIO
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08245912 **Image available**
PRINTER

PUB. NO.: 2004-358672 [JP 2004358672 A]
PUBLISHED: December 24, 2004 (20041224)
INVENTOR(s): SHIMAMURA YOSHIYUKI
APPLICANT(s): CANON INC
APPL. NO.: 2003-156194 [JP 2003156194]
FILED: June 02, 2003 (20030602)

ABSTRACT

PROBLEM TO BE SOLVED: To print data of various file formats being transmitted from a portable terminal, a digital camera, and the like, provided with a wireless interface for delivering/receiving data to/from a peripheral device while selecting a sheet size suitable for that file format automatically.

SOLUTION: The printer comprises a wireless interface for transmitting/receiving data to/from an external device, a means for... external device through a file exchange protocol on the wireless interface, a means for judging the type of the file, a means for selecting a sheet size and a print mode stored in the printer from the type of the file, a means for editing the file according to a selected sheet size and converting it into print data, and a means for printing the print data.

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11/3,K/25 (Item 14 from file: 347)
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08090001 **Image available**
PRINTER AND METHOD FOR CUTTING SHEET

PUB. NO.: 2004-202760 [JP 2004202760 A]
PUBLISHED: July 22, 2004 (20040722)
INVENTOR(s): SAKAMAKI SHUICHI
APPLICANT(s): SATO CORP
APPL. NO.: 2002-372580 [JP 2002372580]
FILED: December 24, 2002 (20021224)

ABSTRACT

... position B by a cutting mechanism and then test printed. The test printed sheet 5 is partially cut at every carrying distance of 1/m sheet shorter than the length of one sheet and then cut fully at a full cutting position C before a single sheet printed with test print information of one sheet is discharged from an outlet. In feeding sheet, the sheet 5 is cut fully at a full cutting position D by a ...

11/3,K/26 (Item 15 from file: 347)
DIALOG(R)File 347:JAPIO
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07836247 **Image available**
PRINTER DRIVER

PUB. NO.: 2003-330659 [JP 2003330659 A]
PUBLISHED: November 21, 2003 (20031121)
INVENTOR(s): KASHIMA HIDEKI
APPLICANT(s): FUJI PHOTO FILM CO LTD
APPL. NO.: 2002-140911 [JP 2002140911]
FILED: May 16, 2002 (20020516)

ABSTRACT

...the condition of a printer.

SOLUTION: In this printer driver installed in a personal computer for controlling a prescribed printer by the personal computer, and configured to set various print information for controlling the printer on a property picture, the computer is made to realize a function for inquiring the condition (for example, the kind of a sheet set in the printer or the like) of the printer and a function for limiting the item of settable print information (sheet size or the like) associated with the printer on the property picture based on the inquiry result.

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DIALOG(R)File 347:JAPIO
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07832397 **Image available**
RECORD CONTROLLER, INK JET RECORDER

PUB. NO.: 2003-326798 [JP 2003326798 A]
PUBLISHED: November 19, 2003 (20031119)
INVENTOR(s): YOKOYAMA KOICHIRO
YAZAKI TAIRA
SHIBAGAKI YASUTAKA
ITO KEIGO
APPLICANT(s): SEIKO EPSON CORP
APPL. NO.: 2002-141217 [JP 2002141217]
FILED: May 16, 2002 (20020516)

ABSTRACT

... right end and X1+X3 (step) at the trailing end. When lower end print processing of the sheet P is performed, the printer compares a sheet size specified by a printer driver with an actually detected sheet size. When the specified sheet size coincides with the actual sheet size and end margin zero printing is performed, print data subsequent to position R is

subjected to masking thus preventing useless consumption of ink.
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07050008 **Image available**
PRINTER SYSTEM AND METHOD OF PRINTING

PUB. NO.: 2001-277642 [JP 2001277642 A]
PUBLISHED: October 09, 2001 (20011009)
INVENTOR(s): AIZAWA YOSHIHARU
APPLICANT(s): NEC ENG LTD
APPL. NO.: 2000-092752 [JP 200092752]
FILED: March 30, 2000 (20000330)

ABSTRACT

...required accuracy of a printing position.

SOLUTION: An orientation of the paper is detected from the printing information added to the paper beforehand and then position correction for print data is executed corresponding to the condition of paper based on the information. As a result, even when shift of the paper due to bending or...

...skew of the paper occurs, it is possible to achieve the required accuracy of the printing position. As the printing information includes information of a paper size, a format and a kind thereof, the printing corresponding to the condition of the paper obtained from the printing information can be performed so that...

11/3,K/29 (Item 18 from file: 347)
DIALOG(R)File 347:JAPIO
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06782675 **Image available**
PRINTER SYSTEM

PUB. NO.: 2001-010151 [JP 2001010151 A]
PUBLISHED: January 16, 2001 (20010116)
INVENTOR(s): TSUJINISHI MAKOTO
APPLICANT(s): FUNAI ELECTRIC CO LTD
APPL. NO.: 11-184632 [JP 99184632]
FILED: June 30, 1999 (19990630)

ABSTRACT

PROBLEM TO BE SOLVED: To obtain a printer system in which the sheet size can be recognized accurately and printing can be carried out in optimal format depending on the sheet size.

SOLUTION: The printer system 10 comprises an ink jet printer 12 and a PC 14. The ink jet printer 12 executes printing according to designation from

the PC 14. When a mode for recognizing the sheet size automatically (automatic sheet recognition mode) is set by the PC 14, an automatic sheet recognition command is transmitted to a CPU 16 following to a print start command. In response to the automatic sheet recognition command, the CPU 16 designates a control circuit 20 to take out a sheet, detect the length of the sheet based on the output from a second sensor 28 and then detect the width of the sheet based on the output from...

... The CPU 16 transmits the size data of detected length and width of the sheet to the PC 14. The PC 14 sets an optimal format for the print data depending on the size data before transmitting the print data to the ink jet printer 12.

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06069429 **Image available**
PRINTER

PUB. NO.: 11-010940 [JP 11010940 A]
PUBLISHED: January 19, 1999 (19990119)
INVENTOR(s): SHOJI MOTOHIRO
NISHIURA TAMOTSU
APPLICANT(s): FUJITSU LTD
APPL. NO.: 09-163659 [JP 97163659]
FILED: June 20, 1997 (19970620)

ABSTRACT

...timing at each scan in synchronism with a signal for timing the start of printing of each page of the print sheet generated from a sheet length information being set at a clock and the host control section 47, and a print data transfer circuit 52 for controlling the print start position constant relatively to the sheet carrying direction for each page by performing print control in synchronism with the horizontal synchronization signal.

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06040930 **Image available**
CONTINUOUS FORM PAGE PRINTER SYSTEM

PUB. NO.: 10-324030 [JP 10324030 A]
PUBLISHED: December 08, 1998 (19981208)
INVENTOR(s): YOSHIHISA NAOKO
APPLICANT(s): NEC SOFTWARE LTD [491061] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 09-137379 [JP 97137379]
FILED: May 28, 1997 (19970528)

ABSTRACT

PROBLEM TO BE SOLVED: To obtain a continuous form page printer system which can print attractively and automatically on a ~~sheet~~ of size different from a designed size of document...

...SOLUTION: The continuous form page printer system comprises a format information file 12 containing ~~format~~ information, e.g. document size information, a reduced print information file 11 containing reduced print information, e.g. reduced print mode or designated print reduction rate, and a reduced print control means 29 for converting the format information from the ~~format~~ information file 12 and the reduced print information from the reduced print information file 11 into a format suitable for reduced print mode and obtaining a print reduction rate and a print starting position from the size of mounted ~~sheet~~, the document ~~size~~ obtained from a form control table 22 and the reduced print mode and print reduction rate obtained from a reduced print information table 26. When...

11/3,K/32 (Item 21 from file: 347)
DIALOG(R)File 347:JAPIO
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05051241 **Image available**
PRINTING SYSTEM AND PRINTING METHOD

PUB. NO.: 08-006741 [JP 8006741 A]
PUBLISHED: January 12, 1996 (19960112)
INVENTOR(s): OYAMA NAOKI
KURIMOTO MASAMIZU
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 06-156507 [JP 94156507]
FILED: June 15, 1994 (19940615)

ABSTRACT

PURPOSE: To automatically generate print data matching the size of a printing form set on a printer by generating the print data matching the ~~paper size~~ informed of by the printer...

... computer 3000 is started, the CPU 1 of the host computer 3000 requests the printer 1500 through a two-way interface 21 to report the ~~paper size~~ of the printing form set on the printer 1500 according to the application program. At this request, the CPU 12 of the printer 1500 detects the ~~paper size~~ of the printing form which is currently set and sends it to the host computer 3000 through the two-way interface 21. Then the CPU 1 of the host computer 3000 sets the ~~paper size~~ regarding reception as a print format so as to expand print data when the application program can expand the print data in conformity with the ~~paper size~~ regarding the reception.

11/3,K/33 (Item 22 from file: 347)

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04511907 **Image available**
PRINTER

PUB. NO.: 06-155807 [JP 6155807 A]
PUBLISHED: June 03, 1994 (19940603)
INVENTOR(s): NINOMIYA ATSUYUKI
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
 (Japan)
APPL. NO.: 04-308816 [JP 92308816]
FILED: November 18, 1992 (19921118)
JOURNAL: Section: M, Section No. 1669, Vol. 18, No. 479, Pg. 29,
 September 07, 1994 (19940907)

ABSTRACT

PURPOSE: To print print information on the most suitable portion in a printing paper by the printer which stores print information, detects the printing position of stored print information and prints a printing condition on the basis of the detected result...

... CPU 101 selects a size of printing paper and a reduction ratio of the print information on the basis of a detected output of a paper width sensor 111 or the like.

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DIALOG(R)File 347:JAPIO
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04278415 **Image available**
PRINTER WITH AUTOMATIC REDUCTION FUNCTION

PUB. NO.: 05-270115 [JP 5270115 A]
PUBLISHED: October 19, 1993 (19931019)
INVENTOR(s): SUZUKI NOBUYUKI
APPLICANT(s): NEC TOHOKU LTD [491664] (A Japanese Company or Corporation),
 JP (Japan)
APPL. NO.: 04-065591 [JP 9265591]
FILED: March 24, 1992 (19920324)
JOURNAL: Section: M, Section No. 1546, Vol. 18, No. 41, Pg. 8, January
 21, 1994 (19940121)

ABSTRACT

PURPOSE: To ensure that data can be printed within the width of a printing sheet by detecting the width of a printing sheet based on an output from a sheet detection sensor, then retrieving a maximum printing position from print data to determine a reduction rate based on both sets of information, and further, performing a reduction calculation of image data to output the calculation result...

...CONSTITUTION: A printing sheet width detection part 6 calculates the determined width of a printing sheet and stores it in memory 4 upon the receipt of a detection signal from a printing sheet detection sensor 2. On the other hand, an editing part 5 edits print data entered from a print data receiving part 1, then retrieves a maximum

printing position to prepare an information table and stores the table in memory 4. Next, a reduction rate calculation part 7 calculates a reduction rate based on...

11/3,K/35 (Item 24 from file: 347)
DIALOG(R)File 347:JAPIO
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04270303 **Image available**
FORMAT SPECIFICATION DISCRIMINATING PRINTER

PUB. NO.: 05-262003 [JP 5262003 A]
PUBLISHED: October 12, 1993 (19931012)
INVENTOR(s): MATSUO TAMAMI
HANAOKA TAKESHI
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 04-092063 [JP 9292063]
FILED: March 18, 1992 (19920318)
JOURNAL: Section: M, Section No. 1542, Vol. 18, No. 25, Pg. 98,
January 14, 1994 (19940114)

ABSTRACT

PURPOSE: To make it possible to alter a format assignment automatically even on the way of printing, by adding format set data and format cancellation data to the print data of a printer
...

...CONSTITUTION: Format set data 6 and format cancellation data 8 are added to print data 7, and a printer is provided with a data discrimination part 2 and a format data control part 3. The data discrimination part 2 discriminates between the format data 6 and the print data 7. In the case of the format set data 6, the format data control part 3 sets a format assignment, such as sheet size /direction, reduction/enlargement, and writing from top to bottom/writing from left to right. In the case of the print data 7, a printing process is performed. In the format cancellation data 8, the format data control part 3 initializes the format assignment of the printer.

11/3,K/36 (Item 25 from file: 347)
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04147277 **Image available**
PRINTER

PUB. NO.: 05-138977 [JP 5138977 A]
PUBLISHED: June 08, 1993 (19930608)
INVENTOR(s): MIZUKI SATOE
APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 03-309243 [JP 91309243]
FILED: November 25, 1991 (19911125)

JOURNAL: Section: M, Section No. 1483, Vol. 17, No. 524, Pg. 88,
September 21, 1993 (19930921)

ABSTRACT

PURPOSE: To ensure that an operator can print data satisfactorily on a sheet of a standard format size simply and without any manual labor by calculating a vertical and a horizontal size suited for a sheet with data equal to a single page developed on a bit map, then selecting a factor of multiplication suited for the closest size to a format sheet size among others or a format size, and printing data at said factor of multiplication...

... size and a horizontal size after the development of data equal to a single page in a bit map, a means for calculating a calculated sheet size and previously determined format sheet sizes, and a means for calculating a format sheet size closest to the size calculated using the comparison calculation means are provided on a controller of a printer. Subsequently, an operator can print data satisfactorily on a format size sheet without any manual labor and difficulty.

11/3,K/37 (Item 26 from file: 347)
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03856567 **Image available**
PAGE PRINTER

PUB. NO.: 04-221667 [JP 4221667 A]
PUBLISHED: August 12, 1992 (19920812)
INVENTOR(s): SAITO KAZUMASA
APPLICANT(s): NEC ENG LTD [329822] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 02-413334 [JP 90413334]
FILED: December 24, 1990 (19901224)
JOURNAL: Section: M, Section No. 1344, Vol. 16, No. 573, Pg. 34,
December 14, 1992 (19921214)

ABSTRACT

...printer system main body is 2 equipped with a CRT 1, a printing position adjustment switch 3 and a printing switch 4, and a printing position of print data developed in a page buffer on a sheet is displayed on the CRT screen. In addition, the printing position of print data displayed on the CRT screen is set at any site within a sheet size using the printing position adjustment switch 3. Further, a top margin and a left margin for print data set at CRT 1 are set using...

[Insert]

V. Additional Resources Searched

ProQuest and EBSCOHost.